

WID 1476

Well File  
TWEED-47  
V-6  
COPY 2 of 2

# NORTHLAND ENERGY



Precision Drilling

A Division of Precision Drilling Technology Services Group Inc.

N.E.B. COPY

FILE COPY

**Petro-Canada Oil and Gas  
PCI et al Tweed Lake M47C-UP  
N 66 56' 47.11" W 125 54' 9.42"  
Mount Clark**

Testing Operation Performed:  
Customer Representative(s) on Location:  
Northland Energy Supervisor(s):  
Separator Unit Number:  
Test Start and End Dates:  
Northland Energy Job Number:

Tight Hole  
Jim Messervey  
C. Komery, C. Moylan, R. Lotzer  
FS-135  
04/03/08-04/03/11  
4400761B

Northland Energy Representative:  
Report Prepared By:  
Date Prepared:

Steve Beaudet  
J. Zhu  
April 29, 2004

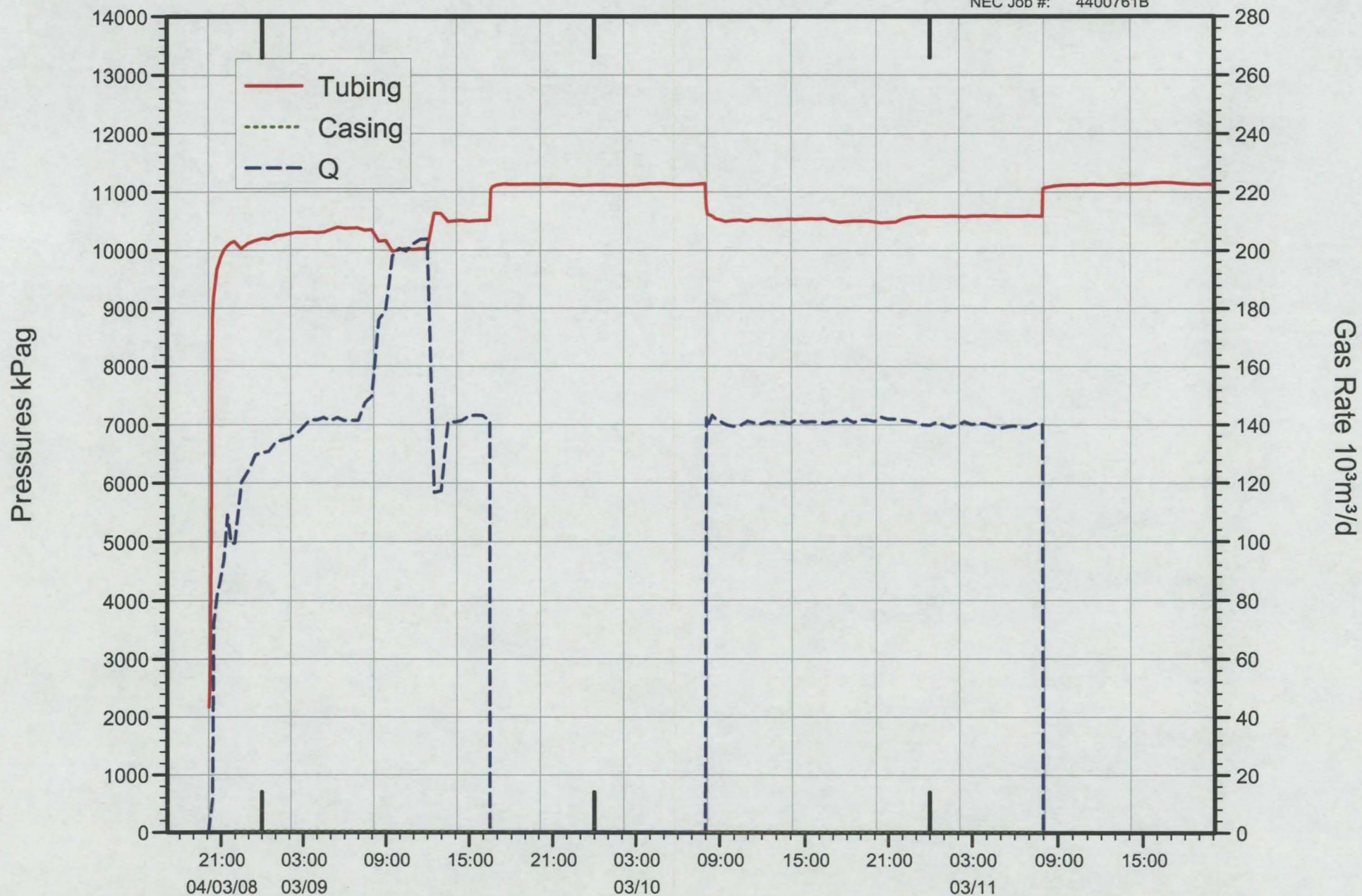




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4600, 150 - 6th Avenue S.W.  
Calgary, AB T2P 3Y7  
Telephone: 403.716.4500  
Facsimile: 403.716.4869  
www.precisiondrilling.com

Petro-Canada Oil and Gas  
N 66 56' 47.11" W 125 54' 9.42"  
Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Pool: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
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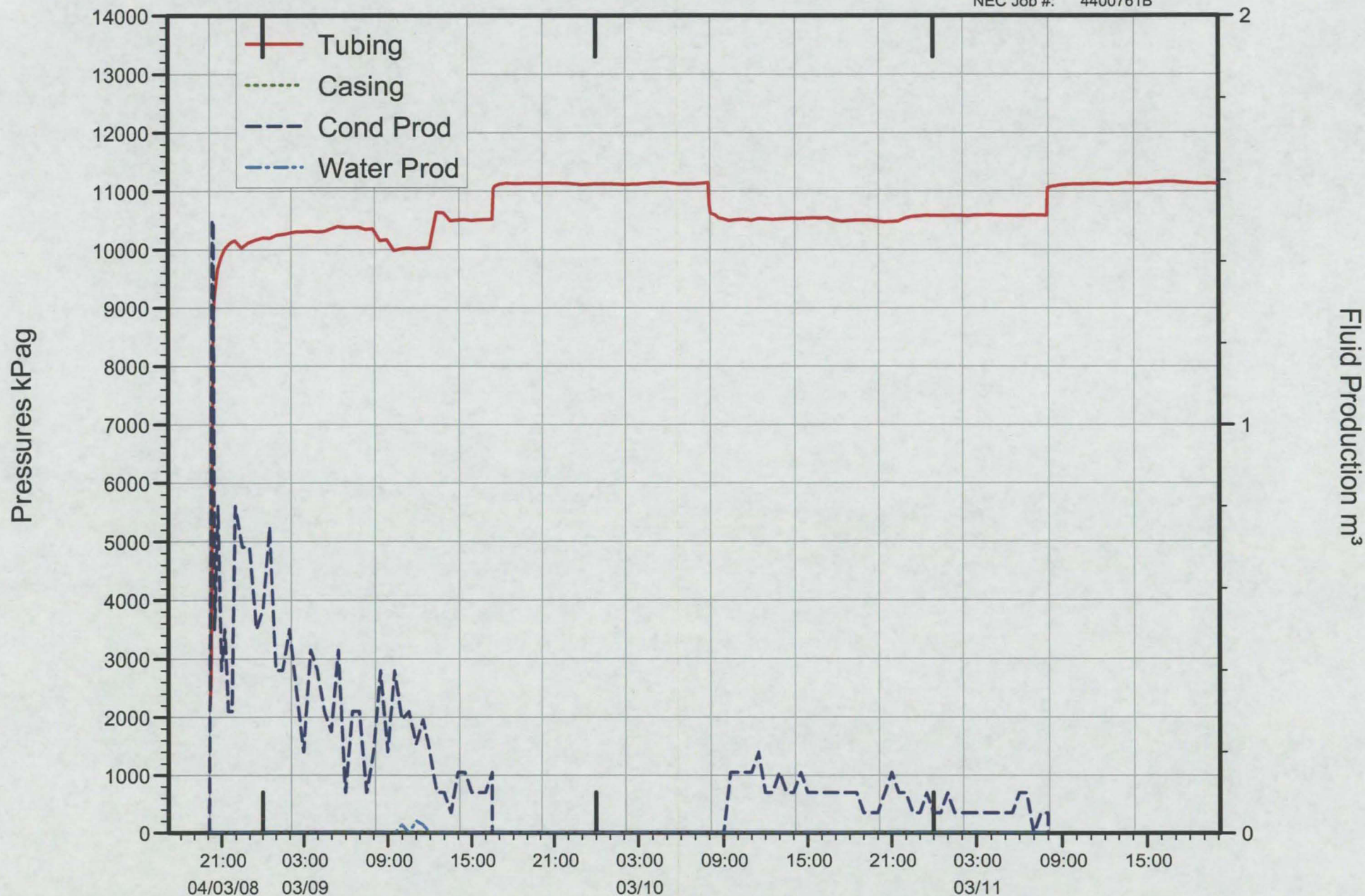




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Company: Petro-Canada Oil and Gas  
Company Representative: Jim Messervey  
  
Wellname: M47C-UP  
UWI: N 66 56' 47.11" W 125 54' 9.42"  
  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
  
Operation: Tight Hole  
  
Test Supervisors: C. Komery, C. Moylan, R. Lotzer  
NEC Job #: 4400761B  
  
Northland Energy Corporation division: Northland Energy  
  
Fluid1 Type: Cond/Oil  
Tank Measurement: Incremental  
  
Fluid2 Type: Water  
Tank Measurement: Incremental  
  
Flow Duration: 44.38 hours  
Final Gas Production Rate: 140.40 10<sup>3</sup>m<sup>3</sup>/d  
Cumulative Gas Produced: 262.30 10<sup>3</sup>m<sup>3</sup>  
Cumulative Water Produced: 0.07 m<sup>3</sup>  
Cumulative Condensate/Oil Produced: 23.13 m<sup>3</sup>  
Initial Tubing Pressure: 1254.00 kPa  
Final Tubing Pressure: 11138.00 kPa

| Meter Type:                       | Meter Run   |
|-----------------------------------|-------------|
| Tap Type:                         | Flange      |
| Tap Location:                     | Down Stream |
| Test Unit:                        | FS-135      |
| Upstream Meter Internal Diameter: | 154.20 mm   |
| H <sub>2</sub>                    |             |
| He                                | 0.0094      |
| N <sub>2</sub>                    | 0.2243      |
| CO <sub>2</sub>                   | 0.0003      |
| H <sub>2</sub> S                  |             |
| C1                                | 0.6774      |
| C2                                | 0.0605      |
| C3                                | 0.0171      |
| iC4                               | 0.0035      |
| nC4                               | 0.0040      |
| iC5                               | 0.0015      |
| nC5                               | 0.0008      |
| C6                                | 0.0007      |
| C7                                | 0.0005      |
| C8                                |             |
| C9                                |             |
| C10                               |             |
| O                                 |             |
| CO                                |             |
| H <sub>2</sub> O                  |             |
| Specific Gravity:                 | 0.707       |
| pPc:                              | 4288.70 kPa |
| pTc:                              | 187.20 °K   |



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| Time     | Elapsed Time | Well Head Data                                                                                      |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH   | Sand | BSW | BHP |
|----------|--------------|-----------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|------|------|-----|-----|
|          |              | Tubing Pressure                                                                                     | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |      |      |     |     |
| hh:mm    | Hours        | kPag                                                                                                | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |      | %    | %   | kpa |
| 04/03/08 |              |                                                                                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 07:45    |              | Conduct safety meeting.                                                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 10:00    |              | Conduct safety meeting.                                                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 10:30    |              | Begin frac.                                                                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 15:00    |              | Frac complete.                                                                                      |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 15:00    |              | Load to recover= 76.0m3.                                                                            |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 15:15    |              | Rig out frac gear and TSI. Rig up flowline to wellhead. Begin pumping methanol down capillary line. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 16:00    |              | 1254                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | 42.4             |                  |      |      |     |     |
| 16:30    |              | 2059                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | 5.4              |                  |      |      |     |     |
| 17:00    |              | 2226                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -2.3             |                  |      |      |     |     |
| 17:30    |              | 2404                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -10.5            |                  |      |      |     |     |
| 18:00    |              | 2577                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -18.4            |                  |      |      |     |     |
| 18:30    |              | 2757                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -26.7            |                  |      |      |     |     |
| 19:00    |              | 2846                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -30.8            |                  |      |      |     |     |
| 19:30    |              | 2936                                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -34.9            |                  |      |      |     |     |
| 19:30    |              | Casing on vacuum.                                                                                   |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 19:50    |              | Conduct safety meeting.                                                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:04    |              | Open well to manifold and pressure test flowline.                                                   |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:07    |              | Open well on 9.5250 mm choke.                                                                       |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:07    |              | Frac oil to surface.                                                                                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:10    | 0.0          | 2176                                                                                                |             |                 |                       |       |       |         |              | 0.40           | 0.40                     | 0.00             | 0.00                  |          | 0.0              |                  |      |      |     |     |
| 20:15    | 0.1          | 2655                                                                                                |             |                 |                       |       |       |         |              | 0.90           | 1.30                     | 0.00             | 0.00                  |          | -22.0            |                  |      |      |     |     |
| 20:17    |              | Meter in service on 63.5000 mm orifice plate.                                                       |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:20    | 0.2          | 5220                                                                                                |             |                 |                       |       |       |         |              | 1.50           | 2.80                     | 0.00             | 0.00                  |          | -139.9           |                  |      |      |     |     |
| 20:25    |              | Gas to surface.                                                                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:25    | 0.3          | 8831                                                                                                |             |                 | 110                   | 1.0   | -2    | 11.85   | 0.07         | 1.50           | 4.30                     | 0.00             | 0.00                  |          | -305.8           |                  |      |      |     |     |
| 20:25    |              | Trace of sand in sample.                                                                            |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:30    | 0.4          | 9176                                                                                                | -10         |                 | 150                   | 30.0  | -4    | 72.15   | 0.32         | 0.50           | 4.80                     | 0.00             | 0.00                  |          | -321.7           |                  |      |      |     |     |
| 20:32    |              | Increase back-pressure.                                                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |      |      |     |     |
| 20:45    | 0.6          | 9679                                                                                                | -10         |                 | 200                   | 34.0  | 10    | 82.01   | 1.17         | 0.80           | 5.60                     | 0.00             | 0.00                  |          | -344.8           |                  |      |      |     |     |
| 21:00    | 0.9          | 9870                                                                                                | -8          |                 | 205                   | 38.0  | 10    | 87.53   | 2.08         | 0.40           | 6.00                     | 0.00             | 0.00                  |          | -353.6           |                  | 10.0 |      |     |     |



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Test Start: 8 Mar 2004  
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NEC Job #: 4400761B

| Time                                                                                                                                                                                                                                                                                                                     | Elapsed Time | Well Head Data                      |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|                                                                                                                                                                                                                                                                                                                          |              | Tubing Pressure                     | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm                                                                                                                                                                                                                                                                                                                    | Hours        | kPag                                | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/08                                                                                                                                                                                                                                                                                                                 |              |                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 21:13                                                                                                                                                                                                                                                                                                                    |              | Change orifice plate to 76.2000 mm. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 21:15                                                                                                                                                                                                                                                                                                                    | 1.1          | 10001                               | -5          |                 | 230                   | 19.0  | 8     | 94.10   | 3.06         | 0.50           | 6.50                     | 0.00             | 0.00                  |          | -359.6           |                  |    |      |     |     |
| 21:30                                                                                                                                                                                                                                                                                                                    | 1.4          | 10075                               | -8          |                 | 250                   | 24.0  | 8     | 109.10  | 4.20         | 0.30           | 6.80                     | 0.00             | 0.00                  |          | -363.0           |                  |    | 1.0  |     |     |
| 21:32                                                                                                                                                                                                                                                                                                                    |              | Ship fluid to rig-tank.             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 21:42                                                                                                                                                                                                                                                                                                                    |              | Stop shipping.                      |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 21:45                                                                                                                                                                                                                                                                                                                    | 1.6          | 10127                               | -4          |                 | 250                   | 20.0  | 8     | 99.45   | 5.23         | 0.30           | 7.10                     | 0.00             | 0.00                  |          | -365.4           |                  |    |      |     |     |
| 22:00                                                                                                                                                                                                                                                                                                                    | 1.9          | 10154                               | -7          | 0               | 250                   | 20.0  | 8     | 99.45   | 6.27         | 0.80           | 7.90                     | 0.00             | 0.00                  |          | -366.6           |                  |    |      |     |     |
| 22:00                                                                                                                                                                                                                                                                                                                    |              | Increase choke to 10.3200 mm.       |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 22:30                                                                                                                                                                                                                                                                                                                    | 2.4          | 10027                               | -7          |                 | 324                   | 24.0  | 6     | 120.44  | 8.78         | 0.70           | 8.60                     | 0.00             | 0.00                  |          | -360.8           |                  |    | 10.0 |     |     |
| 23:00                                                                                                                                                                                                                                                                                                                    | 2.9          | 10119                               | -7          | 0               | 331                   | 25.0  | 4     | 124.43  | 11.37        | 0.70           | 9.30                     | 0.00             | 0.00                  |          | -365.0           |                  |    |      |     |     |
| 23:30                                                                                                                                                                                                                                                                                                                    | 3.4          | 10167                               | -7          |                 | 369                   | 25.0  | 4     | 129.77  | 14.08        | 0.50           | 9.80                     | 0.00             | 0.00                  |          | -367.2           |                  |    | 0.5  |     |     |
| 24:00                                                                                                                                                                                                                                                                                                                    | 3.9          | 10201                               | -7          | 0               | 373                   | 25.0  | 4     | 130.32  | 16.79        | 0.55           | 10.35                    | 0.00             | 0.00                  |          | -368.8           |                  |    | 0.5  |     |     |
| <div> <div>Day Summary</div> <div> Cum. Prod. Since: 20:07 04/03/08<br/> Gas Production (3.9 Hrs) 16.79 10³m³<br/> Cumulative (3.9 Hrs) 16.79 10³m³<br/> Liquid Production (3.9 Hrs)<br/> Cond/Oil 10.35 m³ Water 0.00 m³<br/> Liquid Production Cumulative (3.9 Hrs)<br/> Cond/Oil 10.35 m³ Water 0.00 m³ </div> </div> |              |                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |



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NEC Job #: 4400761B

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|----------|--------------|--------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|-----|------|-----|-----|--|
|          |              | Tubing Pressure                      | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |     |      |     |     |  |
| hh:mm    | Hours        | kPag                                 | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |     | %    | %   | kpa |  |
| 04/03/08 |              |                                      |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 04/03/09 |              |                                      |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 00:30    | 4.4          | 10192                                | -5          |                 | 377                   | 25.0  | 4     | 130.87  | 19.52        | 0.75           | 11.10                    | 0.00             | 0.00                  |          | -368.4           |                  |     |      |     |     |  |
| 01:00    | 4.9          | 10246                                | -5          | 0               | 389                   | 25.5  | 4     | 133.84  | 22.31        | 0.40           | 11.50                    | 0.00             | 0.00                  |          | -370.9           |                  | 0.3 |      |     |     |  |
| 01:30    | 5.4          | 10259                                | -5          |                 | 392                   | 25.6  | 3     | 134.77  | 25.11        | 0.40           | 11.90                    | 0.00             | 0.00                  |          | -371.5           |                  |     |      |     |     |  |
| 02:00    | 5.9          | 10283                                | -5          | 0               | 394                   | 25.7  | 3     | 135.31  | 27.93        | 0.50           | 12.40                    | 0.00             | 0.00                  |          | -372.6           |                  | 0.3 |      |     |     |  |
| 02:30    | 6.4          | 10302                                | -5          |                 | 400                   | 25.9  | 3     | 136.66  | 30.78        | 0.35           | 12.75                    | 0.00             | 0.00                  |          | -373.4           |                  |     |      |     |     |  |
| 02:40    |              | Ship fluid to rig-tank.              |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 02:44    |              | Stop shipping.                       |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 03:00    | 6.9          | 10304                                | -5          | 0               | 400                   | 26.1  | -4    | 139.03  | 33.68        | 0.20           | 12.95                    | 0.00             | 0.00                  |          | -373.5           |                  | 0.4 |      |     |     |  |
| 03:00    |              | Line heater down temporarily.        |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 03:30    | 7.4          | 10313                                | -5          |                 | 403                   | 26.3  | -10   | 141.63  | 36.63        | 0.45           | 13.40                    | 0.00             | 0.00                  |          | -373.9           |                  |     |      |     |     |  |
| 04:00    | 7.9          | 10302                                | -5          | 0               | 403                   | 26.3  | -10   | 141.63  | 39.58        | 0.40           | 13.80                    | 0.00             | 0.00                  |          | -373.4           |                  | 0.1 |      |     |     |  |
| 04:30    | 8.4          | 10311                                | -5          |                 | 401                   | 26.5  | -12   | 142.46  | 42.55        | 0.30           | 14.10                    | 0.00             | 0.00                  |          | -373.9           |                  |     |      |     |     |  |
| 05:00    | 8.9          | 10354                                | -5          | 0               | 401                   | 26.5  | -8    | 141.34  | 45.49        | 0.25           | 14.35                    | 0.00             | 0.00                  |          | -375.8           |                  | 0.2 |      |     |     |  |
| 05:30    | 9.4          | 10398                                | -4          |                 | 419                   | 26.5  | -3    | 142.47  | 48.46        | 0.45           | 14.80                    | 0.00             | 0.00                  |          | -377.8           |                  |     |      |     |     |  |
| 06:00    | 9.9          | 10375                                | -3          | 0               | 415                   | 26.5  | -1    | 141.38  | 51.40        | 0.10           | 14.90                    | 0.00             | 0.00                  |          | -376.8           |                  | 0.2 |      |     |     |  |
| 06:30    | 10.4         | 10380                                | -6          |                 | 410                   | 26.9  | 0     | 141.49  | 54.35        | 0.30           | 15.20                    | 0.00             | 0.00                  |          | -377.0           |                  |     |      |     |     |  |
| 07:00    | 10.9         | 10384                                | -5          | 0               | 408                   | 27.0  | 0     | 141.48  | 57.30        | 0.30           | 15.50                    | 0.00             | 0.00                  |          | -377.2           |                  | 0.2 |      |     |     |  |
| 07:00    |              | Increase choke to 11.1100 mm.        |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 07:30    | 11.4         | 10348                                | -4          |                 | 424                   | 28.4  | 0     | 147.42  | 60.37        | 0.10           | 15.60                    | 0.00             | 0.00                  |          | -375.6           |                  |     |      |     |     |  |
| 08:00    | 11.9         | 10353                                | -5          | 0               | 437                   | 28.6  | 0     | 149.77  | 63.49        | 0.20           | 15.80                    | 0.00             | 0.00                  |          | -375.8           |                  | 0.2 | 5.0  |     |     |  |
| 08:15    |              | Increase choke to 11.9100 mm.        |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 08:30    | 12.4         | 10154                                | -5          |                 | 532                   | 33.5  | 0     | 176.05  | 67.16        | 0.40           | 16.20                    | 0.00             | 0.00                  |          | -366.6           |                  |     |      |     |     |  |
| 08:40    |              | Change orifice plate to 88.9000 mm.  |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 09:00    | 12.9         | 10169                                | -5          | 0               | 540                   | 17.5  | -1    | 179.33  | 70.89        | 0.20           | 16.40                    | 0.00             | 0.00                  |          | -367.3           |                  |     |      |     |     |  |
| 09:01    |              | Increase choke to 12.7000 mm.        |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 09:10    |              | Change to grove back-pressure valve. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |     |      |     |     |  |
| 09:30    | 13.4         | 9982                                 | -3          |                 | 776                   | 15.6  | 0     | 198.03  | 75.02        | 0.40           | 16.80                    | 0.00             | 0.00                  | 230000   | -358.7           |                  | 6.0 | 5.0  |     |     |  |
| 10:00    | 13.9         | 10010                                | -3          |                 | 771                   | 16.1  | 0     | 200.61  | 79.20        | 0.28           | 17.08                    | 0.02             | 0.02                  |          | -360.0           |                  |     |      |     |     |  |
| 10:30    | 14.4         | 10027                                | -3          |                 | 770                   | 16.1  | 2     | 199.71  | 83.36        | 0.30           | 17.38                    | 0.00             | 0.02                  |          | -360.8           |                  |     |      |     |     |  |





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Petro-Canada Oil and Gas  
N 66 56' 47.11" W 125 54' 9.42"

Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time     | Elapsed Time | Well Head Data                                                                    |             |                 | H.P. Sep Gas Metering |       |       |                                   | Cum. Q Total                   | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH  | Sand | BSW  | BHP |
|----------|--------------|-----------------------------------------------------------------------------------|-------------|-----------------|-----------------------|-------|-------|-----------------------------------|--------------------------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|-----|------|------|-----|
|          |              | Tubing Pressure                                                                   | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q                                 |                                | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |     |      |      |     |
| hh:mm    | Hours        | kPag                                                                              | °C          | kPag            | kPag                  | kPa   | °C    | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup>           | m <sup>3</sup>   | m <sup>3</sup>        | ppm      | %                | %                |     | %    | %    | kpa |
| 04/03/09 |              |                                                                                   |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 11:00    | 14.9         | 10015                                                                             | -3          | 0               | 769                   | 16.4  | 0     | 202.24                            | 87.57                          | 0.22           | 17.60                    | 0.03             | 0.05                  | 248000   | -360.2           |                  | 6.0 |      | 10.0 |     |
| 11:30    | 15.4         | 10027                                                                             | -2          | 3               | 771                   | 16.6  | 0     | 203.71                            | 91.82                          | 0.28           | 17.88                    | 0.02             | 0.07                  |          | -360.8           |                  |     | 5.0  |      |     |
| 12:00    | 15.9         | 10032                                                                             | -2          | 3               | 772                   | 16.6  | 0     | 203.83                            | 96.06                          | 0.20           | 18.08                    | 0.00             | 0.07                  |          | -361.0           |                  |     |      |      |     |
| 12:01    |              | Decrease choke to 9.5300 mm.                                                      |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 12:10    |              | Change orifice plate to 69.8500 mm.                                               |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 12:30    | 16.4         | 10638                                                                             | -12         |                 | 724                   | 17.0  | 9     | 116.74                            | 98.50                          | 0.10           | 18.18                    | 0.00             | 0.07                  |          | -388.9           |                  |     |      |      |     |
| 12:30    |              | No fluid at sample port. Moved flowline thermometer.                              |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 13:00    | 16.9         | 10633                                                                             | -5          | 3               | 736                   | 17.0  | 10    | 117.37                            | 100.94                         | 0.10           | 18.28                    | 0.00             | 0.07                  |          | -388.6           |                  |     |      |      |     |
| 13:15    |              | Increase choke to 10.3200 mm.                                                     |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 13:30    | 17.4         | 10495                                                                             | -3          |                 | 755                   | 23.7  | 8     | 140.87                            | 103.88                         | 0.05           | 18.33                    | 0.00             | 0.07                  |          | -382.3           |                  |     |      |      |     |
| 14:00    | 17.9         | 10507                                                                             | -3          |                 | 759                   | 23.6  | 8     | 140.90                            | 106.81                         | 0.15           | 18.48                    | 0.00             | 0.07                  |          | -382.9           |                  |     | 0.0  |      |     |
| 14:30    |              | Circ in / out, is lineheater temp. up and downstream.                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 14:30    | 18.4         | 10513                                                                             | -3          |                 | 758                   | 23.9  | 9     | 141.45                            | 109.76                         | 0.15           | 18.63                    | 0.00             | 0.07                  |          | -383.1           |                  |     |      |      |     |
| 15:00    | 18.9         | 10500                                                                             | -3          |                 | 758                   | 24.0  | 4     | 143.10                            | 112.74                         | 0.10           | 18.73                    | 0.00             | 0.07                  |          | -382.5           |                  |     |      |      |     |
| 15:30    | 19.4         | 10508                                                                             | -3          |                 | 750                   | 24.1  | 2     | 143.27                            | 115.72                         | 0.10           | 18.83                    | 0.00             | 0.07                  |          | -382.9           |                  |     | 0.0  |      |     |
| 16:00    | 19.9         | 10512                                                                             | -4          | 0               | 758                   | 24.0  | 4     | 143.10                            | 118.70                         | 0.10           | 18.93                    | 0.00             | 0.07                  |          | -383.1           |                  |     | 0.0  |      |     |
| 16:30    | 20.4         | 10517                                                                             | -4          |                 | 753                   | 23.8  | 7     | 141.26                            | 121.65                         | 0.15           | 19.08                    | 0.00             | 0.07                  |          | -383.3           |                  |     | 0.0  |      |     |
| 16:30    |              | Shut in well and monitor tubing pressure.                                         |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 16:35    | 0.1          | 11047                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -407.7           |                  |     |      |      |     |
| 16:40    | 0.2          | 11082                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -409.3           |                  |     |      |      |     |
| 16:45    | 0.2          | 11098                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -410.0           |                  |     |      |      |     |
| 17:00    | 0.5          | 11122                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.1           |                  |     |      |      |     |
| 17:15    | 0.8          | 11128                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.4           |                  |     |      |      |     |
| 17:30    | 1.0          | 11139                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.9           |                  |     |      |      |     |
| 17:45    |              | Conduct safety meeting.                                                           |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 18:00    | 1.5          | 11134                                                                             |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.7           |                  |     |      |      |     |
| 18:00    |              | Rig up wireline.                                                                  |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 19:20    |              | Wireline running in hole with Spartek recorder.                                   |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 20:10    |              | Wireline tagged sand at 1311 mKB and will remain at bottom with Spartek recorder. |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |
| 21:00    |              | Continue to monitor tubing pressure.                                              |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |     |      |      |     |



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N 66 56' 47.11" W 125 54' 9.42"  
Operation: Tight Hole  
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Test Start: 8 Mar 2004  
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NEC Job #: 4400761B

| Time                                                                                                                                                                                                                                                                                                                                                                                               | Elapsed Time | Well Head Data  |             |                 | H.P. Sep Gas Metering |       |       |                                   | Cum. Q Total                   | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------|-----------------|-----------------------|-------|-------|-----------------------------------|--------------------------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|                                                                                                                                                                                                                                                                                                                                                                                                    |              | Tubing Pressure | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q                                 |                                | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm                                                                                                                                                                                                                                                                                                                                                                                              | Hours        | kPag            | °C          | kPag            | kPag                  | kPa   | °C    | 10 <sup>3</sup> m <sup>3</sup> /d | 10 <sup>3</sup> m <sup>3</sup> | m <sup>3</sup> | m <sup>3</sup>           | m <sup>3</sup>   | m <sup>3</sup>        | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/09                                                                                                                                                                                                                                                                                                                                                                                           |              |                 |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 21:00                                                                                                                                                                                                                                                                                                                                                                                              | 4.5          | 11140           |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.9           |                  |    |      |     |     |
| 22:00                                                                                                                                                                                                                                                                                                                                                                                              | 5.5          | 11138           |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.9           |                  |    |      |     |     |
| 23:00                                                                                                                                                                                                                                                                                                                                                                                              | 6.5          | 11114           |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -410.8           |                  |    |      |     |     |
| 24:00                                                                                                                                                                                                                                                                                                                                                                                              | 7.5          | 11125           |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          | -411.3           |                  |    |      |     |     |
| <div> Day Summary<br/> Cum. Prod. Since: 20:07 04/03/08<br/> Gas Production (16.5 Hrs) 104.86 10<sup>3</sup>m<sup>3</sup><br/> Cumulative (20.4 Hrs) 121.65 10<sup>3</sup>m<sup>3</sup><br/> Liquid Production (16.5 Hrs)<br/> Cond/Oil 8.73 m<sup>3</sup> Water 0.07 m<sup>3</sup><br/> Liquid Production Cumulative (20.4 Hrs)<br/> Cond/Oil 19.08 m<sup>3</sup> Water 0.07 m<sup>3</sup> </div> |              |                 |             |                 |                       |       |       |                                   |                                |                |                          |                  |                       |          |                  |                  |    |      |     |     |



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N 66 56' 47.11" W 125 54' 9.42"

Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time     | Elapsed Time | Well Head Data                                |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|----------|--------------|-----------------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|          |              | Tubing Pressure                               | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm    | Hours        | kPag                                          | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/09 |              |                                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 04/03/10 |              |                                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 01:00    | 8.5          | 11124                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.2           |                  |    |      |     |     |
| 02:00    | 9.5          | 11119                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.0           |                  |    |      |     |     |
| 03:00    | 10.5         | 11122                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.1           |                  |    |      |     |     |
| 04:00    | 11.5         | 11143                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.1           |                  |    |      |     |     |
| 05:00    | 12.5         | 11147                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.3           |                  |    |      |     |     |
| 06:00    | 13.5         | 11125                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.3           |                  |    |      |     |     |
| 07:00    | 14.5         | 11126                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.3           |                  |    |      |     |     |
| 07:30    |              | Start pumping methanol down capillary line.   |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 08:00    | 15.5         | 11149                                         |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.4           |                  |    |      |     |     |
| 08:00    |              | Open well on 10.3200 mm choke.                |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 08:00    |              | Meter in service on 69.8500 mm orifice plate. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 08:05    | 0.1          | 10762                                         | -12         |                 | 756                   | 24.2  | 8     | 142.44  | 122.14       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -394.6           |                  |    |      |     |     |
| 08:10    | 0.2          | 10630                                         | -10         |                 | 748                   | 23.5  | 9     | 139.42  | 122.63       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -388.5           |                  |    |      |     |     |
| 08:15    | 0.2          | 10618                                         | -6          |                 | 755                   | 23.7  | 9     | 140.60  | 123.11       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -388.0           |                  |    |      |     |     |
| 08:15    |              | Bottom hole pressure = 12790kPa.              |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 08:30    | 0.5          | 10594                                         | -6          |                 | 780                   | 24.0  | 10    | 143.30  | 124.61       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -386.9           |                  |    |      |     |     |
| 08:45    | 0.8          | 10546                                         | -6          |                 | 774                   | 23.8  | 11    | 141.94  | 126.09       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -384.7           |                  |    |      |     |     |
| 08:45    |              | Mist of frac fluid at sample port.            |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 09:00    | 1.0          | 10532                                         | -5          |                 | 789                   | 23.3  | 12    | 141.38  | 127.56       | 0.00           | 19.08                    | 0.00             | 0.07                  |          | -384.0           |                  |    |      |     |     |
| 09:30    | 1.5          | 10499                                         | -7          |                 | 784                   | 23.0  | 12    | 140.06  | 130.48       | 0.15           | 19.23                    | 0.00             | 0.07                  |          | -382.5           |                  |    |      | 0.4 |     |
| 10:00    | 2.0          | 10513                                         | -7          |                 | 799                   | 22.5  | 13    | 139.44  | 133.38       | 0.15           | 19.38                    | 0.00             | 0.07                  |          | -383.1           |                  |    |      | 0.4 |     |
| 10:30    | 2.5          | 10521                                         | -7          |                 | 791                   | 22.8  | 13    | 139.74  | 136.29       | 0.15           | 19.53                    | 0.00             | 0.07                  |          | -383.5           |                  |    |      | 0.4 |     |
| 11:00    | 3.0          | 10504                                         | -6          |                 | 803                   | 22.9  | 12    | 141.26  | 139.24       | 0.15           | 19.68                    | 0.00             | 0.07                  |          | -382.7           |                  |    |      | 0.4 |     |
| 11:30    | 3.5          | 10533                                         | -3          |                 | 806                   | 22.8  | 14    | 140.66  | 142.17       | 0.20           | 19.88                    | 0.00             | 0.07                  |          | -384.1           |                  |    |      | 0.2 |     |
| 12:00    | 4.0          | 10529                                         | -3          |                 | 798                   | 22.8  | 13    | 140.29  | 145.09       | 0.10           | 19.98                    | 0.00             | 0.07                  |          | -383.9           |                  |    |      | 0.2 |     |
| 12:30    | 4.5          | 10518                                         | -2          |                 | 808                   | 22.8  | 13    | 141.08  | 148.03       | 0.10           | 20.08                    | 0.00             | 0.07                  |          | -383.4           |                  |    |      | 0.2 |     |
| 13:00    | 5.0          | 10526                                         | -2          |                 | 803                   | 22.7  | 12    | 140.64  | 150.96       | 0.15           | 20.23                    | 0.00             | 0.07                  |          | -383.7           |                  |    |      | 0.2 |     |
| 13:30    | 5.5          | 10532                                         | -2          |                 | 808                   | 22.7  | 12    | 141.03  | 153.90       | 0.10           | 20.33                    | 0.00             | 0.07                  |          | -384.0           |                  |    |      | 0.1 |     |
| 14:00    | 6.0          | 10535                                         | -4          |                 | 801                   | 22.7  | 12    | 140.48  | 156.82       | 0.10           | 20.43                    | 0.00             | 0.07                  |          | -384.1           |                  |    |      | 0.4 |     |





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| Time     | Elapsed Time | Well Head Data                                                                                             |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|----------|--------------|------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|          |              | Tubing Pressure                                                                                            | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm    | Hours        | kPag                                                                                                       | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/10 |              |                                                                                                            |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 14:30    | 6.5          | 10531                                                                                                      | -2          |                 | 810                   | 22.8  | 11    | 141.77  | 159.78       | 0.15           | 20.58                    | 0.00             | 0.07                  |          | -384.0           |                  |    |      | 0.4 |     |
| 15:00    | 7.0          | 10543                                                                                                      | -2          |                 | 805                   | 22.8  | 13    | 140.85  | 162.71       | 0.10           | 20.68                    | 0.00             | 0.07                  |          | -384.5           |                  |    |      | 0.1 |     |
| 15:30    | 7.5          | 10544                                                                                                      | -2          |                 | 808                   | 22.8  | 13    | 141.08  | 165.65       | 0.10           | 20.78                    | 0.00             | 0.07                  |          | -384.6           |                  |    |      | 0.1 |     |
| 16:00    | 8.0          | 10542                                                                                                      | -1          |                 | 806                   | 22.8  | 13    | 140.92  | 168.59       | 0.10           | 20.88                    | 0.00             | 0.07                  |          | -384.5           |                  |    |      | 0.0 |     |
| 16:30    | 8.5          | 10549                                                                                                      | -1          |                 | 801                   | 22.8  | 13    | 140.53  | 171.51       | 0.10           | 20.98                    | 0.00             | 0.07                  |          | -384.8           |                  |    |      | 0.0 |     |
| 17:00    | 9.0          | 10506                                                                                                      | -1          |                 | 805                   | 22.8  | 12    | 141.11  | 174.45       | 0.10           | 21.08                    | 0.00             | 0.07                  |          | -382.8           |                  |    |      | 0.0 |     |
| 17:30    | 9.5          | 10486                                                                                                      | -2          |                 | 799                   | 22.8  | 11    | 140.90  | 177.39       | 0.10           | 21.18                    | 0.00             | 0.07                  |          | -381.9           |                  |    |      | 0.0 |     |
| 18:00    | 10.0         | 10498                                                                                                      | -3          | 0               | 806                   | 22.9  | 10    | 142.03  | 180.35       | 0.10           | 21.28                    | 0.00             | 0.07                  |          | -382.4           |                  |    |      | 0.0 |     |
| 18:30    | 10.5         | 10506                                                                                                      | -3          |                 | 795                   | 22.8  | 10    | 140.84  | 183.28       | 0.10           | 21.38                    | 0.00             | 0.07                  |          | -382.8           |                  |    |      | 0.0 |     |
| 19:00    | 11.0         | 10505                                                                                                      | -3          |                 | 805                   | 22.9  | 11    | 141.68  | 186.23       | 0.05           | 21.43                    | 0.00             | 0.07                  |          | -382.8           |                  |    |      | 0.0 |     |
| 19:05    |              | Ship fluid to 400 bbl. tank.                                                                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 19:08    |              | Stop shipping.                                                                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 19:30    | 11.5         | 10507                                                                                                      | -3          |                 | 801                   | 23.0  | 11    | 141.68  | 189.18       | 0.05           | 21.48                    | 0.00             | 0.07                  |          | -382.9           |                  |    |      | 0.0 |     |
| 20:00    | 12.0         | 10492                                                                                                      | -4          | 0               | 795                   | 22.9  | 10    | 141.15  | 192.13       | 0.05           | 21.53                    | 0.00             | 0.07                  |          | -382.2           |                  |    |      | 0.0 |     |
| 20:00    |              | Line-heater was down temporarily.                                                                          |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 20:30    | 12.5         | 10473                                                                                                      | -4          |                 | 771                   | 22.6  | -6    | 142.66  | 195.10       | 0.10           | 21.63                    | 0.00             | 0.07                  |          | -381.3           |                  |    |      | 0.0 |     |
| 21:00    | 13.0         | 10482                                                                                                      | -4          |                 | 762                   | 22.6  | -6    | 141.91  | 198.05       | 0.15           | 21.78                    | 0.00             | 0.07                  |          | -381.7           |                  |    |      | 0.0 |     |
| 21:30    | 13.5         | 10486                                                                                                      | -4          |                 | 768                   | 22.9  | -1    | 141.94  | 201.01       | 0.10           | 21.88                    | 0.00             | 0.07                  |          | -381.9           |                  |    |      | 0.0 |     |
| 22:00    | 14.0         | 10542                                                                                                      | -3          | 0               | 773                   | 22.9  | 2     | 141.53  | 203.96       | 0.10           | 21.98                    | 0.00             | 0.07                  |          | -384.5           |                  |    |      | 0.1 |     |
| 22:30    | 14.5         | 10568                                                                                                      | -3          |                 | 780                   | 22.9  | 5     | 141.28  | 206.90       | 0.05           | 22.03                    | 0.00             | 0.07                  |          | -385.7           |                  |    |      | 0.2 |     |
| 23:00    | 15.0         | 10577                                                                                                      | -3          |                 | 787                   | 22.9  | 9     | 140.78  | 209.84       | 0.05           | 22.08                    | 0.00             | 0.07                  |          | -386.1           |                  |    |      | 0.1 |     |
| 23:30    | 15.5         | 10588                                                                                                      | -2          |                 | 791                   | 22.8  | 12    | 140.00  | 212.75       | 0.10           | 22.18                    | 0.00             | 0.07                  |          | -386.6           |                  |    |      | 0.1 |     |
| 24:00    | 16.0         | 10584                                                                                                      | -2          | 0               | 793                   | 22.7  | 12    | 139.85  | 215.67       | 0.05           | 22.23                    | 0.00             | 0.07                  |          | -386.4           |                  |    |      | 0.0 |     |
| 24:00    |              | Approximately 80 litres of methanol has been injected since opening the well at 08:00. (16 hours of flow). |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |



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Petro-Canada Oil and Gas  
N 66 56' 47.11" W 125 54' 9.42"

Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time                                                                                                                                                                                                                                                                                                            | Elapsed Time | Well Head Data  |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|                                                                                                                                                                                                                                                                                                                 |              | Tubing Pressure | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm                                                                                                                                                                                                                                                                                                           | Hours        | kPag            | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/10                                                                                                                                                                                                                                                                                                        |              |                 |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| <div>Day Summary</div> <div> Cum. Prod. Since: 20:07 04/03/08<br/> Gas Production (16.0 Hrs) 94.02 10³m³<br/> Cumulative (36.4 Hrs) 215.67 10³m³<br/> Liquid Production (16.0 Hrs)<br/> Cond/Oil 3.15 m³ Water 0.00 m³<br/> Liquid Production Cumulative (36.4 Hrs)<br/> Cond/Oil 22.23 m³ Water 0.07 m³ </div> |              |                 |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |



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Operation: Tight Hole  
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Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time     | Elapsed Time | Well Head Data                      |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|----------|--------------|-------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|          |              | Tubing Pressure                     | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm    | Hours        | kPag                                | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/10 |              |                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 04/03/11 |              |                                     |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 00:30    | 16.5         | 10585                               | -2          |                 | 795                   | 22.9  | 11    | 140.89  | 218.60       | 0.05           | 22.28                    | 0.00             | 0.07                  |          | -386.4           |                  |    |      | 0.0 |     |
| 01:00    | 17.0         | 10585                               | -3          |                 | 796                   | 22.6  | 11    | 140.04  | 221.52       | 0.10           | 22.38                    | 0.00             | 0.07                  |          | -386.4           |                  |    |      | 0.1 |     |
| 01:30    | 17.5         | 10589                               | -3          |                 | 792                   | 22.5  | 12    | 139.15  | 224.42       | 0.05           | 22.43                    | 0.00             | 0.07                  |          | -386.6           |                  |    |      | 0.2 |     |
| 02:00    | 18.0         | 10587                               | -3          | 0               | 797                   | 22.6  | 12    | 139.85  | 227.33       | 0.05           | 22.48                    | 0.00             | 0.07                  |          | -386.5           |                  |    |      | 0.1 |     |
| 02:30    | 18.5         | 10580                               | -3          |                 | 797                   | 23.0  | 12    | 141.10  | 230.27       | 0.05           | 22.53                    | 0.00             | 0.07                  |          | -386.2           |                  |    |      | 0.1 |     |
| 03:00    | 19.0         | 10592                               | -3          |                 | 797                   | 22.7  | 12    | 140.16  | 233.19       | 0.05           | 22.58                    | 0.00             | 0.07                  |          | -386.8           |                  |    |      | 0.1 |     |
| 03:30    | 19.5         | 10591                               | -2          |                 | 797                   | 22.7  | 11    | 140.43  | 236.12       | 0.05           | 22.63                    | 0.00             | 0.07                  |          | -386.7           |                  |    |      | 0.1 |     |
| 04:00    | 20.0         | 10594                               | -2          | 0               | 807                   | 22.5  | 12    | 140.33  | 239.04       | 0.05           | 22.68                    | 0.00             | 0.07                  |          | -386.9           |                  |    |      | 0.1 |     |
| 04:30    | 20.5         | 10593                               | -3          |                 | 796                   | 22.5  | 12    | 139.46  | 241.95       | 0.05           | 22.73                    | 0.00             | 0.07                  |          | -386.8           |                  |    |      | 0.1 |     |
| 05:00    | 21.0         | 10590                               | -3          |                 | 791                   | 22.5  | 13    | 138.81  | 244.84       | 0.05           | 22.78                    | 0.00             | 0.07                  |          | -386.7           |                  |    |      | 0.1 |     |
| 05:30    | 21.5         | 10587                               | -4          |                 | 787                   | 22.7  | 12    | 139.37  | 247.74       | 0.05           | 22.83                    | 0.00             | 0.07                  |          | -386.5           |                  |    |      | 0.1 |     |
| 06:00    | 22.0         | 10589                               | -4          | 0               | 791                   | 22.7  | 12    | 139.69  | 250.65       | 0.10           | 22.93                    | 0.00             | 0.07                  |          | -386.6           |                  |    |      | 0.1 |     |
| 06:30    | 22.5         | 10588                               | -3          |                 | 788                   | 22.6  | 12    | 139.14  | 253.55       | 0.10           | 23.03                    | 0.00             | 0.07                  |          | -386.6           |                  |    |      | 0.1 |     |
| 07:00    | 23.0         | 10596                               | -3          |                 | 785                   | 22.7  | 12    | 139.21  | 256.45       | 0.00           | 23.03                    | 0.00             | 0.07                  |          | -386.9           |                  |    |      | 0.0 |     |
| 07:30    | 23.5         | 10591                               | -2          |                 | 795                   | 22.8  | 12    | 140.32  | 259.37       | 0.05           | 23.08                    | 0.00             | 0.07                  |          | -386.7           |                  |    |      | 0.0 |     |
| 08:00    | 24.0         | 10588                               | -2          | 0               | 796                   | 22.8  | 12    | 140.40  | 262.30       | 0.05           | 23.13                    | 0.00             | 0.07                  |          | -386.6           |                  |    |      | 0.0 |     |
| 08:00    |              | Shut in well. Meter out of service. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 08:05    | 0.1          | 11060                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -408.3           |                  |    |      |     |     |
| 08:10    | 0.2          | 11071                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -408.8           |                  |    |      |     |     |
| 08:15    | 0.2          | 11078                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -409.1           |                  |    |      |     |     |
| 08:30    | 0.5          | 11091                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -409.7           |                  |    |      |     |     |
| 08:45    | 0.8          | 11100                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -410.1           |                  |    |      |     |     |
| 09:00    | 1.0          | 11108                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -410.5           |                  |    |      |     |     |
| 09:30    | 1.5          | 11122                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.1           |                  |    |      |     |     |
| 10:00    | 2.0          | 11126                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.3           |                  |    |      |     |     |
| 10:30    | 2.5          | 11124                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.2           |                  |    |      |     |     |
| 11:00    | 3.0          | 11131                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.5           |                  |    |      |     |     |
| 11:30    | 3.5          | 11132                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.6           |                  |    |      |     |     |
| 12:00    | 4.0          | 11129                               |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.4           |                  |    |      |     |     |





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Petro-Canada Oil and Gas  
N 66 56' 47.11" W 125 54' 9.42"

Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time                                                                                                                                                                                                                                                                                                            | Elapsed Time | Well Head Data                                    |             |                 | H.P. Sep Gas Metering |       |       |         | Cum. Q Total | Cond/Oil Prod. |                          | Water Production |                       |          | Tubing Draw Down | Casing Draw Down | pH | Sand | BSW | BHP |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------|-------------|-----------------|-----------------------|-------|-------|---------|--------------|----------------|--------------------------|------------------|-----------------------|----------|------------------|------------------|----|------|-----|-----|
|                                                                                                                                                                                                                                                                                                                 |              | Tubing Pressure                                   | Tubing Temp | Casing Pressure | Static Pressure       | Diff. | Temp. | Q       |              | Cond/Oil Prod. | Cum. Cond/Oil Prod. Tot. | Water Prod.      | Cum. Water Prod. Tot. | Salinity |                  |                  |    |      |     |     |
| hh:mm                                                                                                                                                                                                                                                                                                           | Hours        | kPag                                              | °C          | kPag            | kPag                  | kPa   | °C    | 10³m³/d | 10³m³        | m³             | m³                       | m³               | m³                    | ppm      | %                | %                |    | %    | %   | kpa |
| 04/03/11                                                                                                                                                                                                                                                                                                        |              |                                                   |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| 12:30                                                                                                                                                                                                                                                                                                           | 4.5          | 11125                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.3           |                  |    |      |     |     |
| 13:00                                                                                                                                                                                                                                                                                                           | 5.0          | 11129                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.4           |                  |    |      |     |     |
| 13:30                                                                                                                                                                                                                                                                                                           | 5.5          | 11144                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.1           |                  |    |      |     |     |
| 14:00                                                                                                                                                                                                                                                                                                           | 6.0          | 11142                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.0           |                  |    |      |     |     |
| 14:30                                                                                                                                                                                                                                                                                                           | 6.5          | 11141                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.0           |                  |    |      |     |     |
| 15:00                                                                                                                                                                                                                                                                                                           | 7.0          | 11146                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.2           |                  |    |      |     |     |
| 15:30                                                                                                                                                                                                                                                                                                           | 7.5          | 11155                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.6           |                  |    |      |     |     |
| 16:00                                                                                                                                                                                                                                                                                                           | 8.0          | 11166                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -413.1           |                  |    |      |     |     |
| 16:30                                                                                                                                                                                                                                                                                                           | 8.5          | 11167                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -413.2           |                  |    |      |     |     |
| 17:00                                                                                                                                                                                                                                                                                                           | 9.0          | 11168                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -413.2           |                  |    |      |     |     |
| 17:30                                                                                                                                                                                                                                                                                                           | 9.5          | 11155                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.6           |                  |    |      |     |     |
| 18:00                                                                                                                                                                                                                                                                                                           | 10.0         | 11147                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.3           |                  |    |      |     |     |
| 18:30                                                                                                                                                                                                                                                                                                           | 10.5         | 11142                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -412.0           |                  |    |      |     |     |
| 19:00                                                                                                                                                                                                                                                                                                           | 11.0         | 11138                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.9           |                  |    |      |     |     |
| 19:30                                                                                                                                                                                                                                                                                                           | 11.5         | 11140                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.9           |                  |    |      |     |     |
| 20:00                                                                                                                                                                                                                                                                                                           | 12.0         | 11138                                             |             |                 |                       |       |       |         |              |                |                          |                  |                       |          | -411.9           |                  |    |      |     |     |
| 20:00                                                                                                                                                                                                                                                                                                           |              | Opened well for start of test #2, start new file. |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |
| <div><div>Day Summary</div><div>Cum. Prod. Since: 20:07 04/03/08<br/>Gas Production (8.0 Hrs) 46.63 10³m³<br/>Cumulative (44.4 Hrs) 262.30 10³m³<br/>Liquid Production (8.0 Hrs)<br/>Cond/Oil 0.90 m³ Water 0.00 m³<br/>Liquid Production Cumulative (44.4 Hrs)<br/>Cond/Oil 23.13 m³ Water 0.07 m³</div></div> |              |                                                   |             |                 |                       |       |       |         |              |                |                          |                  |                       |          |                  |                  |    |      |     |     |



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NEC Job #: 4400761B

| Time     | Description                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------|
| hh:mm    |                                                                                                     |
| 04/03/08 |                                                                                                     |
| 07:45    | Conduct safety meeting.                                                                             |
| 10:00    | Conduct safety meeting.                                                                             |
| 10:30    | Begin frac.                                                                                         |
| 15:00    | Frac complete.                                                                                      |
| 15:00    | Load to recover= 76.0m3.                                                                            |
| 15:15    | Rig out frac gear and TSI. Rig up flowline to wellhead. Begin pumping methanol down capillary line. |
| 19:30    | Casing on vacuum.                                                                                   |
| 19:50    | Conduct safety meeting.                                                                             |
| 20:04    | Open well to manifold and pressure test flowline.                                                   |
| 20:07    | Open well on 9.5250 mm choke.                                                                       |
| 20:07    | Frac oil to surface.                                                                                |
| 20:17    | Meter in service on 63.5000 mm orifice plate.                                                       |
| 20:25    | Gas to surface.                                                                                     |
| 20:25    | Trace of sand in sample.                                                                            |
| 20:32    | Increase back-pressure.                                                                             |
| 21:13    | Change orifice plate to 76.2000 mm.                                                                 |
| 21:32    | Ship fluid to rig-tank.                                                                             |
| 21:42    | Stop shipping.                                                                                      |
| 22:00    | Increase choke to 10.3200 mm.                                                                       |
| 04/03/09 |                                                                                                     |
| 02:40    | Ship fluid to rig-tank.                                                                             |
| 02:44    | Stop shipping.                                                                                      |
| 03:00    | Line heater down temporarily.                                                                       |
| 07:00    | Increase choke to 11.1100 mm.                                                                       |
| 08:15    | Increase choke to 11.9100 mm.                                                                       |
| 08:40    | Change orifice plate to 88.9000 mm.                                                                 |
| 09:01    | Increase choke to 12.7000 mm.                                                                       |
| 09:10    | Change to grove back-pressure valve.                                                                |
| 12:01    | Decrease choke to 9.5300 mm.                                                                        |
| 12:10    | Change orifice plate to 69.8500 mm.                                                                 |



Precision Drilling

Northland Energy  
4600, 150 - 6th Avenue S.W.  
Calgary, AB T2P 3Y7  
Telephone: 403.716.4500  
Facsimile: 403.716.4869  
www.precisiondrilling.com

Petro-Canada Oil and Gas  
N 66 56' 47.11" W 125 54' 9.42"  
Operation: Tight Hole  
Pool or Zone: Mount Clark  
Field or Area: Tweed Lake  
Test Start: 8 Mar 2004  
Test End: 11 Mar 2004  
NEC Job #: 4400761B

| Time     | Description                                                                                                |
|----------|------------------------------------------------------------------------------------------------------------|
| hh:mm    |                                                                                                            |
| 04/03/09 |                                                                                                            |
| 12:30    | No fluid at sample port. Moved flowline thermometer.                                                       |
| 13:15    | Increase choke to 10.3200 mm.                                                                              |
| 14:30    | Circ in / out, is lineheater temp. up and downstream.                                                      |
| 16:30    | Shut in well and monitor tubing pressure.                                                                  |
| 17:45    | Conduct safety meeting.                                                                                    |
| 18:00    | Rig up wireline.                                                                                           |
| 19:20    | Wireline running in hole with Spartek recorder.                                                            |
| 20:10    | Wireline tagged sand at 1311 mKB and will remain at bottom with Spartek recorder.                          |
| 21:00    | Continue to monitor tubing pressure.                                                                       |
| 04/03/10 |                                                                                                            |
| 07:30    | Start pumping methanol down capillary line.                                                                |
| 08:00    | Open well on 10.3200 mm choke.                                                                             |
| 08:00    | Meter in service on 69.8500 mm orifice plate.                                                              |
| 08:15    | Bottom hole pressure = 12790kPa.                                                                           |
| 08:45    | Mist of frac fluid at sample port.                                                                         |
| 19:05    | Ship fluid to 400 bbl. tank.                                                                               |
| 19:08    | Stop shipping.                                                                                             |
| 20:00    | Line-heater was down temporarily.                                                                          |
| 24:00    | Approximately 80 litres of methanol has been injected since opening the well at 08:00. (16 hours of flow). |
| 04/03/11 |                                                                                                            |
| 08:00    | Shut in well. Meter out of service.                                                                        |
| 20:00    | Opened well for start of test #2, start new file.                                                          |

**NORTHLAND ENERGY CORPORATION**- NORTHLAND-NORWARD  
ENERGY SERVICES

- ENTEST



Precision Drilling Corporation

**Sample Control Information**

Job #: 440076

Client: Petro Canada Oil And Gas

Client Work Order/AFE: B783031

Client Representatives and Contact Numbers

Jim Messervey 1-600-700-7884

Samples Required: ☐ Yes ☒ No

Samples Taken By:

Comments: Core Lab Rep. On Location Taking All Samples. TIGHT HOLE.

Unique Well Identifier:

Wellname:

Field or Area:

Pool or Zone:

Elevation: KB m GRD m

Tested Interval or Perforations: Highest mKB Lowest mKB

**Pressurized Samples**

| Sample Point | Fluid Type<br>Sampled | Container # | Sample Date<br>(yyyy-mm-dd) | Sample Time<br>(hh:mm) | Pressure<br>(KPag) | Temp<br>(°C) | H <sub>2</sub> S % |
|--------------|-----------------------|-------------|-----------------------------|------------------------|--------------------|--------------|--------------------|
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |
|              |                       |             |                             |                        |                    |              |                    |

**Atmospheric Samples**

| Sample Point | Fluid Type<br>Sampled | Number of<br>Containers | Sample Date<br>(yyyy-mm-dd) | Sample Time<br>(hh:mm) | H <sub>2</sub> S % | pH | Salinity<br>(ppm) |
|--------------|-----------------------|-------------------------|-----------------------------|------------------------|--------------------|----|-------------------|
|              |                       |                         |                             |                        |                    |    |                   |
|              |                       |                         |                             |                        |                    |    |                   |
|              |                       |                         |                             |                        |                    |    |                   |
|              |                       |                         |                             |                        |                    |    |                   |
|              |                       |                         |                             |                        |                    |    |                   |

H<sub>2</sub>S determined in the field by:☐ Tutweiler☐ Other:

Lab Delivered to for Analysis:

City:

Samples Delivered By:

Print Name

Signature

Date (yyyy-mm-dd)

Received By (Lab Rep):

Print Name

Signature

Date (yyyy-mm-dd)





## EXTENDED GAS ANALYSIS

A0000002 - 43

CONTAINER IDENTITY

METER ID

WELL LICENSE NUMBER

52134-2004-2647

LABORATORY FILE NUMBER

Petro-Canada Oil and Gas

OPERATOR

PAGE

PCI et al Tweed Lake M-47

LOCATION (UWI)

WELL NAME

KB ELEV (m)

GR ELEV (m)

Tweed Lake

Mount Clark

Core Laboratories

FIELD OR AREA

POOL OR ZONE

SAMPLER

TEST TYPE AND NO.

TEST RECOVERY

Fast Separator Meter Run

POINT OF SAMPLE

SAMPLE POINT ID

1222.5 - 1233.5

PUMPING

FLOWING

GAS LIFT

SWAB

WATER

m³/d

OIL

m³/d

GAS

m³/d

TEST INTERVAL or PERFS (meters)

873

SEPARATOR

RESERVOIR

OTHER

CONTAINER WHEN SAMPLED

CONTAINER WHEN RECEIVED

-7.0

SEPARATOR

OTHER

09:00 Hrs

Pressures, kPa (gauge)

Temperatures, °C

2004 03 14

2004 04 21

2004 04 27

CC

°C

DATE SAMPLED (Y/M/D)

DATE RECEIVED (Y/M/D)

DATE ANALYZED (Y/M/D)

ANALYST

AMT. AND TYPE CUSHION

MUD RESISTIVITY

| COMPONENT        | MOLE FRACTION<br>AIR FREE AS<br>RECEIVED | MOLE FRACTION<br>AIR FREE<br>ACID GAS FREE | mL/m³<br>AIR FREE AS<br>RECEIVED |
|------------------|------------------------------------------|--------------------------------------------|----------------------------------|
| H <sub>2</sub>   | 0.0000                                   | 0.0000                                     |                                  |
| He               | 0.0094                                   | 0.0094                                     |                                  |
| N <sub>2</sub>   | 0.2243                                   | 0.2243                                     |                                  |
| CO <sub>2</sub>  | 0.0003                                   | 0.0000                                     |                                  |
| H <sub>2</sub> S | 0.0000                                   | 0.0000                                     |                                  |
| C <sub>1</sub>   | 0.6774                                   | 0.6777                                     |                                  |
| C <sub>2</sub>   | 0.0605                                   | 0.0605                                     | 214.8                            |
| C <sub>3</sub>   | 0.0171                                   | 0.0171                                     | 62.8                             |
| IC <sub>4</sub>  | 0.0035                                   | 0.0035                                     | 15.3                             |
| C <sub>4</sub>   | 0.0040                                   | 0.0040                                     | 16.8                             |
| IC <sub>5</sub>  | 0.0015                                   | 0.0015                                     | 7.3                              |
| C <sub>5</sub>   | 0.0008                                   | 0.0008                                     | 3.9                              |
| C <sub>6</sub>   | 0.0007                                   | 0.0007                                     | 3.7                              |
| C <sub>7+</sub>  | 0.0005                                   | 0.0005                                     | 2.9                              |
| Total            | 1.0000                                   | 1.0000                                     | 327.5                            |

|                                                                                 |  |                                                 |  |
|---------------------------------------------------------------------------------|--|-------------------------------------------------|--|
| CALCULATED GROSS HEATING VALUE<br>MJ/m <sup>3</sup> @ 15°C & 101.325 kPa (abs.) |  | CALCULATED VAPOR PRESSURE<br>kPa (abs.) @ 40 °C |  |
| 32.68                                                                           |  | 101.2                                           |  |
| MOISTURE FREE                                                                   |  | PENTANES PLUS                                   |  |
| MOISTURE & ACID GAS FREE                                                        |  |                                                 |  |
| CALCULATED TOTAL SAMPLE PROPERTIES (AIR=1) @ 15°C & 101.325 kPa                 |  |                                                 |  |
| MOISTURE FREE AS SAMPLED                                                        |  |                                                 |  |
| 0.866 kg/m <sup>3</sup>                                                         |  | 20.5                                            |  |
| DENSITY                                                                         |  | RELATIVE MOLECULAR MASS                         |  |
| RELATIVE DENSITY                                                                |  |                                                 |  |
| CALCULATED PSEUDOCRITICAL PROPERTIES                                            |  |                                                 |  |
| AS SAMPLED                                                                      |  | ACID GAS FREE                                   |  |
| 4288.7 kPa (abs.)                                                               |  | 4287.9 kPa (abs.)                               |  |
| 167.2 K                                                                         |  | 187.1 K                                         |  |
| p <sub>Pc</sub>                                                                 |  | p <sub>Pc</sub>                                 |  |
| p <sub>Tc</sub>                                                                 |  | p <sub>Tc</sub>                                 |  |
| C <sub>7+</sub> PROPERTIES @ 15°C & 101.325 kPa                                 |  |                                                 |  |
| 747.0 kg/m <sup>3</sup>                                                         |  | 0.0000000                                       |  |
| 95.8                                                                            |  | Field                                           |  |
| DENSITY                                                                         |  | MOLECULAR WEIGHT                                |  |
|                                                                                 |  | HYDROGEN SULPHIDE                               |  |

## REMARKS:

H<sub>2</sub>S was not detected in the field.

Sample was air contaminated.

Results may be affected by air contamination.

There was insufficient gas present in the duplicate sample for analysis.

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #9 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING OPA 2146 - 00 PHYSICAL CONSTANTS.

# NORTHLAND ENERGY CORPORATION

- NORTHLAND-NORWARD  
ENERGY SERVICES

- ENTEST



Precision Drilling Corporation

## EUB Test Information

Job Number: 4400761

Job Supervisor: C. Moylan

- All sections must be completed for every well.
- Explain fully in the space provided at the bottom of the form why any information is missing.
- Shaded items should be known by the company representative all others by the job supervisor.
- Company Representative must sign below acknowledging that all information is complete and correct

|                                                        |                                                |
|--------------------------------------------------------|------------------------------------------------|
| <b>Company:</b> Petro Canada Oil And Gas               | <b>Company Representative:</b> Jennifer Taylor |
| <b>Wellname:</b> PCI Et Al Tweed Lake M-47             | <b>Phone:</b> 403-296-3537                     |
| <b>Unique Well ID:</b> N 66 56' 47.11" W 125 54' 9.42" |                                                |
| <b>Pool or Zone:</b> Mount Clarke                      |                                                |
| <b>Field or Area:</b> Tweed Lake                       | <b>Well License:</b> Na                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                      |                      |                      |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------|----------------------|----------------------|--------------------|----------|------------|------------|--------------|---------------|----------|------------|----------|---------------|--|----------------|------------|----------------------|----------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Well Fluid Status at Test Date (Code):</b> 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Well Type:</b> |                      |                      |                      |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |
| <table border="0"> <tr> <td>01 - Crude Oil</td> <td>05 - Undesignated</td> <td>09 - Solvent</td> <td>13 - CO<sub>2</sub></td> <td>17 - Crude Bitumen</td> </tr> <tr> <td>02 - Gas</td> <td>06 - Water</td> <td>10 - Steam</td> <td>14 - Polymer</td> <td>20 - Acid Gas</td> </tr> <tr> <td>03 - Oil</td> <td>07 - Brine</td> <td>11 - Air</td> <td>15 - Nitrogen</td> <td></td> </tr> <tr> <td>04 - Gas/Water</td> <td>08 - Waste</td> <td>12 - Synthetic Crude</td> <td>16 - LPG</td> <td></td> </tr> </table> | 01 - Crude Oil    | 05 - Undesignated    | 09 - Solvent         | 13 - CO <sub>2</sub> | 17 - Crude Bitumen | 02 - Gas | 06 - Water | 10 - Steam | 14 - Polymer | 20 - Acid Gas | 03 - Oil | 07 - Brine | 11 - Air | 15 - Nitrogen |  | 04 - Gas/Water | 08 - Waste | 12 - Synthetic Crude | 16 - LPG |  | <input checked="" type="checkbox"/> Vertical<br><input type="checkbox"/> Deviated<br><input type="checkbox"/> Horizontal<br><input type="checkbox"/> Multi-Lateral |
| 01 - Crude Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 05 - Undesignated | 09 - Solvent         | 13 - CO <sub>2</sub> | 17 - Crude Bitumen   |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |
| 02 - Gas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 06 - Water        | 10 - Steam           | 14 - Polymer         | 20 - Acid Gas        |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |
| 03 - Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 07 - Brine        | 11 - Air             | 15 - Nitrogen        |                      |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |
| 04 - Gas/Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 08 - Waste        | 12 - Synthetic Crude | 16 - LPG             |                      |                    |          |            |            |              |               |          |            |          |               |  |                |            |                      |          |  |                                                                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                        |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------|--------------|----------------|----------------|--------------|----------------|---------------|---------------|---------------------|---------------------|-----------------------|--------------------------|----------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|-----------|------------------|------------------|-----------------|--------------|---------------|---------------|----------------|-------------------|-------------|--|--|------------------------|
| <b>Well Status Mode at Test Date (Code):</b> 10                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Well Status Type at Test Date (Code):</b> 00 |                        |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| <table border="0"> <tr> <td>00 - No Selection</td> <td>05 - Capped</td> <td>10 - Flowing</td> </tr> <tr> <td>01 - Suspended</td> <td>06 - Potential</td> <td>11 - Pumping</td> </tr> <tr> <td>02 - Abandoned</td> <td>07 - Standing</td> <td>12 - Gas Lift</td> </tr> <tr> <td>03 - Abandoned Zone</td> <td>08 - Junked &amp; Abnd.</td> <td>14 - Abnd &amp; Whipstock</td> </tr> <tr> <td>04 - Abandoned/ re-entry</td> <td>09 - Closed (by EUB)</td> <td></td> </tr> </table> | 00 - No Selection                               | 05 - Capped            | 10 - Flowing | 01 - Suspended | 06 - Potential | 11 - Pumping | 02 - Abandoned | 07 - Standing | 12 - Gas Lift | 03 - Abandoned Zone | 08 - Junked & Abnd. | 14 - Abnd & Whipstock | 04 - Abandoned/ re-entry | 09 - Closed (by EUB) |  | <table border="0"> <tr> <td>00 - No Selection</td> <td>04 - Disposal</td> <td>08 - Farm</td> </tr> <tr> <td>01 - Reproducuer</td> <td>05 - Observation</td> <td>09 - Industrial</td> </tr> <tr> <td>02 - Storage</td> <td>06 - Training</td> <td>10 - Cyclical</td> </tr> <tr> <td>03 - Injection</td> <td>07 - Experimental</td> <td>11 - Source</td> </tr> <tr> <td></td> <td></td> <td>12 - SW Steam Assisted</td> </tr> </table> | 00 - No Selection | 04 - Disposal | 08 - Farm | 01 - Reproducuer | 05 - Observation | 09 - Industrial | 02 - Storage | 06 - Training | 10 - Cyclical | 03 - Injection | 07 - Experimental | 11 - Source |  |  | 12 - SW Steam Assisted |
| 00 - No Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 05 - Capped                                     | 10 - Flowing           |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 01 - Suspended                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 06 - Potential                                  | 11 - Pumping           |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 02 - Abandoned                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 07 - Standing                                   | 12 - Gas Lift          |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 03 - Abandoned Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 08 - Junked & Abnd.                             | 14 - Abnd & Whipstock  |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 04 - Abandoned/ re-entry                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 09 - Closed (by EUB)                            |                        |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 00 - No Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 04 - Disposal                                   | 08 - Farm              |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 01 - Reproducuer                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05 - Observation                                | 09 - Industrial        |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 02 - Storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 06 - Training                                   | 10 - Cyclical          |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
| 03 - Injection                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 07 - Experimental                               | 11 - Source            |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 | 12 - SW Steam Assisted |              |                |                |              |                |               |               |                     |                     |                       |                          |                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |               |           |                  |                  |                 |              |               |               |                |                   |             |  |  |                        |

|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Whipstock Depth KB (TVD):</b> _____ m<br><b>Tubing Landed at Depth KB (TVD):</b> 1 201.90 m<br><b>Production Casing ID:</b> 157.07 mm<br><b>Production Tubing OD:</b> 73.00 mm<br><b>Production Tubing ID:</b> 62.00 mm<br><b>Packer Setting Depth KB (TVD):</b> 1 196.00 m<br><b>Test Interval Top mKB (Log):</b> 1222.5 highest<br><b>Test Interval Top mKB (TVD):</b> 1 222.50 highest | <b>Open Hole Completion:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes:<br><b>Casing Landed at Depth KB (TVD):</b> _____ m<br><b>Casing Liner Indicator:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No<br><b>Hole Diameter:</b> _____ mm<br><b>Producing Through:</b> <input checked="" type="checkbox"/> Tubing <input type="checkbox"/> Annular <input type="checkbox"/> Casing<br><b>Test Interval Base mKB (Log):</b> 1233.5 lowest<br><b>Test Interval Base mKB (TVD):</b> 1 233.50 lowest |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| <b>Start Date of Test (yyyy-mm-dd):</b> 2004-03-14 | <b>Test Type:</b> 3 point                 |
| <b>Start Time of Test (HH:mm):</b> 10:00           | <b>Surface Temp:</b> _____ °C             |
| <b>Flow Duration:</b> 97.52 hours                  | <b>Reservoir Temp:</b> 12.0 °C            |
| <b>Initial Casing Pressure:</b> 0.00 kPag          | <b>Initial Tubing Pressure:</b> 0.00 kPag |
| <b>Final Tubing Pressure:</b> 11 122.00 kPag       | <b>Formation Temp:</b> _____ °C           |

|                                                                                                                                                |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Description of Gas Production:</b> <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Tubing <input type="checkbox"/> Both | <b>Gas Produced in Cleanup and Test:</b> 635.820 10 <sup>3</sup> m <sup>3</sup> /d |
| <b>Method of Test Production:</b> <input type="checkbox"/> Pipeline <input type="checkbox"/> Vent <input checked="" type="checkbox"/> Flare    | <b>KB:</b> 435.22 m <b>GRD:</b> 429.10 m                                           |

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Missing Information:</b> | <input checked="" type="checkbox"/> Not supplied by Company Representative<br><input type="checkbox"/> Other (specify): _____ |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|

Company Representative – print name

Company Representative - signature