

**Guidelines Respecting Monthly Production Reporting  
for  
Producing Fields  
in the  
Newfoundland and Labrador Offshore Area  
  
September 2011**

**Canada-Newfoundland and Labrador Offshore Petroleum Board**

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### **Foreword**

These guidelines have been developed by the Canada Newfoundland and Labrador Offshore Petroleum Board (C-NLOPB) to assist operators in the submission of the Monthly Production Report. These guidelines may be amended from time to time as the need arises. A print copy of these guidelines may be obtained from the C-NLOPB's home page – <http://www.cnlopb.nl.ca/> under Legislation & Guidance.

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Figure 1: Geographic Areas of C-NLOPB's Jurisdiction

## **Introduction**

The Canada-Newfoundland and Labrador Offshore Petroleum Board (C-NLOPB), hereafter referred to as the Board, is responsible for tracking petroleum production in the Newfoundland and Labrador Offshore Area, Figure 1.

Part 7, Sections 60 - 64 of the Newfoundland Offshore Petroleum Drilling and Production Regulations sets out the requirements for measurement and testing of production while Part 11, Section 85 of the Regulations requires the operator of a producing field to submit a 'Monthly Production Report'. Prior to initiating production from a field, an operator must have obtained approval from the Board's Chief Conservation Officer (CCO) respecting the flow system and the flow calculation and allocation procedures to be used. The volumes reported in the monthly production report must be determined using the metering facilities and procedures as approved by the Board's CCO.

These guidelines are intended to assist operators in filing the applicable monthly statements and worksheets which make up the 'Monthly Production Report'. Three types of statements have been developed. These include:

- \* NF-S1 Monthly Production Statement
- \* NF-S2 Monthly Disposition Statement
- \* NF-S18 Monthly Injection/Disposal Statement

and, 2 supporting worksheets:

- \* NF-S1a Monthly Production Test Data Worksheet
- \* NF-S2a Monthly Tanker Details Worksheet

The method for reporting production data for the Newfoundland and Labrador Offshore Area has been developed after the 'S' form approach of The Energy Resources Conservation Board (ERCB).

Certain modifications and streamlining has been necessary to be consistent with the data required for the Newfoundland and Labrador offshore.

To date, efforts have focused on development of the NF-S1, NF-S2 and NF-S18 monthly statements and their associated worksheets. Where justified by development intentions, reporting requirements would be expanded to include statements associated with gas gathering and gas processing installations.

The following requirements apply to all statements and worksheets which make up the 'Monthly Production Report' to be submitted to the Board.

**Format of Submission:**

The statements and worksheets which make up the monthly production report are to be submitted to the Board in both hardcopy and electronic form. The formats for submission of data have been defined by the Board. Operators must comply with these formats when reporting production data to the Board.

Guidance has been provided in this document to assist an operator in completing its submission. Reference should be made to the "hardcopy format" when following the guidance provided.

\* hardcopy format

The operator is referred to Appendix A which represents the 'standard' format for hardcopy submission of statements and worksheets to the Board. The data conveyed in the statements and worksheets of Appendix A also represents a realistic 'field scenario' which the operator is requested to duplicate in both hardcopy and electronic form to test compliance with the Board's submission requirements.

These formats found here are intended as 'templates' from which an operator should design its reporting system. Any resultant format(s) designed by an operator for submission of hardcopy data is permitted where it conforms to the Board's standard. Where deviation from the standard format is being contemplated, the operator must first obtain approval from the Board's CCO to submit data in this form.

\* electronic format

Flat ASCII is the format for reporting production data to the Board electronically. The medium for submission may be compact disk or email. The operator is referred to Appendix B for guidance respecting submission in this form.

Where deviation from the format is being contemplated, the operator must first obtain approval from the Board's CCO to submit data in this electronic form.

Prior to a field going into production, the operator will be required to submit a 'data file' based upon the 'field scenario' represented within Appendix A to ensure that the operator is able to comply with the Board's electronic submission requirements.

**Filing:**

The operator of an installation must file the statements comprising the monthly production report with the C-NOPB at the following address **no later than** the 15th day of the month following the month of production:

Canada-Newfoundland and Labrador Offshore  
Petroleum Board  
Measurement Lead  
5th floor - TD Place  
140 Water Street  
St. John's, Newfoundland  
A1C-6H6

All statements and worksheets require a contact name which is deemed to certify that the information supplied is accurate and correct and that the assigned areas for volumetric data are intended to be zero, if left blank.

**Amendments to Submission:**

Where an operator wishes to amend data it has submitted to the Board, it must submit an amendment to the statement or worksheet previously submitted.

As amended statements often necessitate corresponding amendments to other statements or associated worksheets, amendments filed in electronic form **must** consist of a complete data set including all statements or worksheets regardless if is affected by amended data or not. Hardcopy submissions however may be restricted to the affected statement(s) or worksheet(s).

Amendments to a previous production month **must be filed** in both hardcopy and electronic form and are to be submitted separately from regular monthly submissions.

**Units System:**

The international system of units (SI) should be used in submitting data to the Board.

The operator must report data to the Board where applicable in volumetric form:

Liquid: in cubic metres (m<sup>3</sup>) at 15 C and 101.325 kPa reported to 1 decimal place.

Gas: in thousands of cubic metres (10<sup>3</sup>m<sup>3</sup>) at 15 C and 101.325 kPa reported to 1 decimal place.

**Note: Where assigned areas for volumetric data are left blank either on hardcopy or electronic submissions, these areas will be deemed to be reported as 0.0.**



**NF-S1**  
**MONTHLY PRODUCTION STATEMENT**

**Purpose of the NF-S1:**

The NF-S1 is a monthly statement of crude oil, crude bitumen, condensate, gas, and water production for one or more wells that comprise an installation.

**Note: The guidance provided for the NF-S1 statement has been limited to crude oil installations. Where justified, this document will be expanded in future to include gas installations.**

**Which wells to report:**

Report production from all production wells whether or not they have produced during the reporting period.

Report production from any injection well that might have occurred during the reporting period.

**Assigned Codes:**

Where assigned codes are referenced in the following sections, the operator is referred to the appropriate schedule in Appendix C for the coding requirements applicable.

**Reference:**

Reference should be made to the hardcopy version of the NF-S1 statement (Appendix A) when following through the guidance provided in the following sections.

The requirement for submission of the NF-S1 in electronic form is found in Appendix B.

**Header Identification:**

Name and Address of Operator Indicate the name and mailing address of the operator of the installation.

Reporting Month Details:

- \* Year Refer to Appendix C - Schedule (a) for applicable coding. Enter the reporting year as a 4 digit numeral.
- \* Month Enter the reporting month as 01 to 12.
- \* Operator Enter the assigned alphanumeric code for operator.
- \* Field Enter the assigned alphanumeric code for field.
- \* Region Enter the assigned alphanumeric code for region.
- \* Installation Enter the assigned alphanumeric code for installation.

Amendment Month Details:

- \* Year Enter the amendment year as a 4 digit numeral.
- \* Month Enter the amendment month as 01 to 12.
- \* Day Enter the amendment day as 01 to 31.
- \* Code Enter the applicable 2 digit amendment code to indicate the primary reason for the amendment:

Amendment Description	Code
* identification codes	01
* proration	02
* hours	03
* cycle number	04
* contact information	05
* NF-S1/NF-S2 cross balance	06
* other	50
* two or more of the above	99

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If both the NF-S1 and NF-S1a require amendments, and more than one reason (code) exists for such change, then use code 99 on both the statement and worksheet as submitted and on the affected digital record being changed.**

Page \_\_\_ of \_\_\_.

Applicable to hardcopy submissions only. Enter the current page number relative to the total number of 8 1/2 inch by 14 inch (landscape) pages submitted.

**Contact Identification:**

Contact Name The operator must indicate the person responsible for the accuracy and integrity of submitted data.

Signature Where hardcopy is submitted to the Board in print form, provide the signature of the person responsible.

Date Enter the year, month and day the data was created.

Area Code/Telephone Provide the phone number of the person responsible.



**Well Details (cont'd):**

Estimated Production

- \* Oil/Condensate (Oil/Cnd) Enter the volume of oil or condensate production ( $m^3$ ) estimated at the well during the reporting month.
- \* Gas Enter the volume of gas production ( $10^3m^3$ ) estimated at the well during the reporting month.
- \* Water Enter the volume of water production ( $m^3$ ) estimated at the well during the reporting month.

**Note: Estimated production volumes for a well and pool must agree with that reported on the NF-S1a Monthly Test Proration Worksheet.**

Measured Production

- \* Hours (Hrs) Enter to the nearest hour the number of measured production hours for the well for the reporting month.
- \* Oil/Condensate (Oil/Cnd) Enter the volume of oil or condensate production ( $m^3$ ) measured at the well during the reporting month.
- \* Gas Enter the volume of gas production ( $10^3m^3$ ) measured at the well during the reporting month.
- \* Water Enter the volume of water production ( $m^3$ ) measured at the well during the reporting month.

Prorated Production

- \* Hours (Hrs) Enter to the nearest hour the number of prorated production hours for the well for the reporting month.
- \* Number of tests (N/T) Enter the number of proration tests conducted during the reporting month.
- \* Oil/Condensate (Oil/Cnd) Enter the volume of oil or condensate production ( $m^3$ ) prorated to the well during the reporting month.
- \* Gas Enter the volume of gas production ( $10^3m^3$ ) prorated to the well during the reporting month.
- \* Water Enter the volume of water production ( $m^3$ ) prorated to the well during the reporting month.

**Note: A well's prorated production is determined by multiplying the estimated production for a well by the proration factor determined for oil, gas or water.**

**Totals:**

Enter the totals for estimated, measured and prorated production for an installation along the line as shown in the NF-S1, Appendix A.

Total Estimated Production

- \* Oil/Condensate (Oil/Cnd) Enter the sum of 'net' oil and/or condensate production ( $m^3$ ) estimated from all wells during the reporting month.
- \* Gas Enter the sum of 'net' gas production ( $10^3m^3$ ) estimated from all wells during the reporting month.
- \* Water Enter the sum of 'net' water production ( $m^3$ ) estimated from all wells during the reporting month.

Total Measured Production

- \* Oil/Condensate (Oil/Cnd) Enter the sum of 'net' oil or condensate production ( $m^3$ ) measured at all wells during the reporting month.
- \* Gas Enter the sum of 'net' gas production ( $10^3m^3$ ) measured at all wells during the reporting month.
- \* Water Enter the sum of 'net' water production ( $m^3$ ) measured at all wells during the reporting month.

Total Prorated Production

- \* Oil/Condensate (Oil/Cnd) Enter the total volume\* of 'net' oil/condensate ( $m^3$ ) to be prorated.  
  
This volume must equal the sum of prorated production for oil/condensate allocated to producing wells during the month.
- \* Gas Enter the total volume\* of 'net' gas ( $10^3m^3$ ) to be prorated.  
  
This volume must equal the sum of prorated production for gas allocated to producing wells during the month.
- \* Water Enter the total volume\* of 'net' water ( $m^3$ ) to be prorated.  
  
This volume must equal the sum of prorated production for water allocated to producing wells during the month.

**\* The total volume of oil/condensate, gas, and water to be prorated to wells for the month is the volume(s) representing group stream production carried forward from the NF-S2 and reported on the NF-S1 under the heading 'Total Installation Production' minus the total volume of any measured production reported above.**

**Proration Factors:**

- |                            |   |
|----------------------------|---|
| * Oil/Condensate (Oil/Cnd) | Proration factor = total prorated crude oil and/or condensate production ÷ total estimated crude oil and/or condensate production |
| * Gas                      | Proration factor = total prorated gas production ÷ total estimated gas production   |
| * Water                    | Proration factor = total prorated water production ÷ total estimated water production   |

**Note: Proration factor(s) should be calculated to maximum decimal accuracy for determining a well's prorated volume, then rounded to 5 decimal places for reporting purposes.**

**Total Installation Production:**

- |                            |  |
|----------------------------|--|
| * Oil/Condensate (Oil/Cnd) | Enter the total volume of 'net' oil/condensate (m <sup>3</sup> ) produced at the installation during the reporting month.      |
| * Gas                      | Enter the total volume of 'net' gas (10 <sup>3</sup> m <sup>3</sup> ) produced at the installation during the reporting month. |
| * Water                    | Enter the total volume of 'net' water (m <sup>3</sup> ) produced at the installation during the reporting month.               |

**Note: The volumes reported under 'Total Installation Production' are carried forward from the NF-S2 ('Oil Production', 'Gas Production' and 'Water Production') and must equal the sum of 'total measured production' and 'total prorated production' reported for the month.**

**NF-S1a**

**MONTHLY TEST PRORATION WORKSHEET**



**Purpose of the NF-S1a:**

The NF-S1a worksheet provides additional details related to monthly proration testing in support of the NF-S1 Monthly Production Statement.

Part 7, Sections 64 of the Newfoundland Offshore Petroleum Drilling and Production Regulations requires an operator of a development well that is producing petroleum shall ensure that sufficient proration tests are performed to permit reasonably accurate determination of the allocation of oil, gas and water production on a pool and zone basis.

**Which wells to report:**

Report for all wells capable of producing whether or not they have produced for the reporting period.

**Assigned Codes:**

Where assigned codes are referenced in the following sections, the operator is referred to the appropriate schedule in Appendix C for the coding requirements applicable.

**Reference:**

Reference should be made to the hardcopy version of the NF-S1a statement (Appendix A) when following through the guidance provided in the following sections.

The electronic form for submission of the NF-S1a is combined with that for the NF-S1 submission found in Appendix B.

**Header Identification:**

Name and Address of Operator: Indicate the name and mailing address of the operator of the installation.

Reporting Month Details:

- \* Year Refer to Appendix C - Schedule (a) for applicable coding. Enter the reporting year as a 4 digit numeral.
- \* Month Enter the reporting month as 01 to 12.
- \* Operator Enter the assigned alphanumeric code for operator.
- \* Field Enter the assigned alphanumeric code for field.
- \* Region Enter the assigned alphanumeric code for region.
- \* Installation Enter the assigned alphanumeric code for installation.

Amendment Month Details:

- \* Year Enter the amendment year as a 4 digit numeral.
- \* Month Enter the amendment month as 01 to 12.
- \* Day Enter the amendment day as 01 to 31.
- \* Code Enter the applicable 2 digit amendment code to indicate the primary reason for the amendment:

Amendment Description	Code
* identification codes	01
* hours	15
* rates	16
* pressures	17
* coefficients	18
* estimated production	19
* other	50
* two or more of the above	99

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If both the NF-S1 and NF-S1a require amendments, and more than one reason (code) exists for such change, then use code 99 on both the statement and worksheet as submitted and on the affected digital record being changed.**

Page \_\_\_ of \_\_\_.

Applicable to hardcopy submissions only. Enter the current page number relative to the total number of 8 1/2 inch by 14 inch (landscape) pages submitted.

### Test Summary:

Enter under the heading 'Test Summary' the details specific to each proration test as it applies to the current production month.

Test Date Enter the date the well was tested (yyyymmdd), i.e. the date on which the well was diverted to the test separator.

**Note: Tests should be evenly spaced throughout the month. Where a test does not commence at the start of a reporting month, report the results for the last test occurring in the previous month.**

Rate Reduction (Y/N) Indicate with a Y=yes or N=no as to whether rate reduction was necessary to test this well.

Y=yes applies only to oil wells where approval has been given by the Board to produce at rates above test separator capacity.

Test Duration (Hrs) Total test duration, i.e. the duration, reported to the nearest hour that the well is off-line from the main process train.

Hours of Stabilized Flow Report to the nearest hour, the number of hours of stabilized flow under which the well was tested.

Stabilized flow may be defined as a well flowing at a stable rate for a stable flowing pressure. A minimum of 4 hours stabilized flow is required.

Where rate reduction applies, the time required for the onset of stabilized flow is typically longer than for wells where the rate is not reduced before going to test. Once a well has reached stabilized flow conditions, a minimum of 4 hours stabilized flow is required.

#### Stabilized Flow - Rate Summary

- \* Oil/Cnd ( $\text{m}^3/\text{d}$ )
- \* Gas ( $10^3\text{m}^3/\text{d}$ )
- \* Water ( $\text{m}^3/\text{d}$ )

Reported Corrected to Standard Conditions

Enter the stabilized flow rate for oil/condensate.

Enter the stabilized flow rate for gas.

Enter the stabilized flow rate for water.

#### Test Pressure Summary

- \*  $P_{\text{res}}$  (kPaa)
- \*  $P_{\text{bpt}}$  (kPaa)
- \*  $P_{\text{wf}}$  (kPaa)
- \*  $P_{\text{wh}}$  (kPaa)
- \*  $P_{\text{c}}$  (kPaa)

'Reservoir Pressure @ sandface' from shut-in data.

'Bubble Point Pressure @ sandface' from lab data.

'Final Flowing Bottomhole Pressure @ sandface' - measured.

'Final Flowing Wellhead Pressure' - measured.

'Final Static Wellhead Shut-in Pressure' - from correlation's and used where wellhead deliverability curves are employed.

**Note: Any deviations in  $P_{\text{res}}$  from one test to the next must be supported by shut-in data, extrapolated multirate data or drawdown response.**



### Main Production Summary:

Enter under the heading 'Main Production Summary' the details specific to total production estimated for the well and associated with the proration test in question.

**Hours On** Enter the number of producing hours of prorated production associated with each test for each well during the month. These are the number of hours of production from the start of one test to the start of the next test.

**Note: Where a test does not commence at the start of a reporting month, the operator must use the last test occurring in the previous month as the basis for estimating production. 'Hours on' used in determining estimated production is calculated from the start of the reporting month to the start of the first test within the reporting month.**

**Main Pressure Summary** Required where rate reduction of oil wells apply.  
\*  $P_{wf}$  (kPaa) 'Final Flowing Bottomhole Pressure @ sandface' - measured.  
\*  $P_{wh}$  (kPaa) 'Final Flowing Wellhead Pressure' - measured.

**Note:  $P_{wf}$  and  $P_{wh}$  represent the final pressures realized during the main production period prior to the start of the next test.**

**Estimated Production**  
\* Oil/Condensate ( $m^3$ ) Estimated production of oil/condensate for the test period.  
\* Gas ( $10^3m^3$ ) Estimated production of gas for the test period.  
\* Water ( $m^3$ ) Estimated production of water during the test period.

**Note: Estimated production represents the production of oil, gas and water associated with 'hours on' production from test to test for the reporting month. The sum of estimated production occurring during the month must equal that reported on the NF-S1 Monthly Production Statement.**

Where rate reduction for oil wells applies, estimated oil production may be simply calculated as the sum of the:

- \* estimated production during testing - based upon the product of the stabilized rate of flow reported for the testing period and the number of hours that the well was off line for testing purposes; and,
- \* estimated production that occurred once the well was put back on line - based upon the product of the backpressure coefficient or productivity indices and the difference between 'Reservoir Pressure' and 'Flowing Pressure' over the number of days (('Hours On'-'Test Duration')/24) the well remained on Production.

Where rate reduction for oil wells does not apply, the estimated production is simply the product of the rate of stabilized flow for the given fluid and the number of days of production between tests corresponding to the number of hours reported under 'Hours on'.

Estimated gas or water production is obtained by multiplying estimated oil production for the test period by the GOR or OWR as tested.

**Note: Report the totals for 'Hours on' and 'Estimated Production' for each producing well in the space provided on the worksheet.**

**NF-S2**  
**MONTHLY DISPOSITION STATEMENT**

**Purpose of the NF-S2:**

The NF-S2 is a monthly statement of the disposition of oil, gas and water produced or received by an installation. The statement must accurately reflect the movement of oil, gas and water to and from an installation.

The NF-S2 is divided into 3 sections according to product type, i.e. oil, gas and water. Each section consists of three subsections which document the receipts of product from external sources, the delivery of product to external recipients and a summary line which details monthly production of product, what's received, what's delivered, what remains in storage and what's consumed by the installation.

**Assigned Codes:**

Where assigned codes are referenced in the following sections, the operator is referred to the appropriate schedule in Appendix C for the coding requirements applicable.

**Reference:**

Reference should be made to the hardcopy version of the NF-S2 statement (Appendix A) when following through the guidance provided in the following sections.

The requirement for submission of the NF-S2 in electronic form is found in Appendix B.

**Header Identification:**

Name and Address of Operator Indicate the name and mailing address of the operator of the installation.

Reporting Month Details: Refer to Appendix C - Schedule (a) for applicable coding.  
\* Year Enter the reporting year as a 4 digit numeral.  
\* Month Enter the reporting month as 01 to 12.  
\* Operator Enter the assigned alphanumeric code for operator.  
\* Field Enter the assigned alphanumeric code for field.  
\* Region Enter the assigned alphanumeric code for region.  
\* Installation Enter the assigned alphanumeric code for installation.

Amendment Month Details:  
\* Year Enter the amendment year as a 4 digit numeral.  
\* Month Enter the amendment month as 01 to 12.  
\* Day Enter the amendment day as 01 to 31.  
\* Code Enter the applicable 2 digit amendment code to indicate the primary reason for the amendment:

Amendment Description	Code*
* identification codes	01
* contact information	05
* NF-S1/NF-S2 cross balance	06
* receipts	07
* deliveries	08
* product summary	10
* NF-S2/NF-S18 cross balance	12
* other	50
* two or more of the above	99

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If both the NF-S2 and NF-S2a require amendments, and more than one reason (code) exists for such change, then use code 99 on both the statement and worksheet as submitted and on the affected digital record being changed.**

Page \_\_\_ of \_\_\_. Applicable to hardcopy submissions only. Enter the current page number relative to the total number of 8 1/2 inch by 14 inch (landscape) pages submitted.

**Contact Identification:**

Contact Name The operator must indicate the person responsible for the accuracy and integrity of submitted data.

Signature Where hardcopy is submitted to the Board in print form, provide the signature of the person responsible.

Date Enter the year, month and day the data was created.

Area Code/Telephone Provide the phone number of the person responsible.



**‘OIL’ - Other Receipts:**

- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code for the source of ‘Other Receipts’ of oil received at the installation; i.e. either the tanker code, the pipeline code, or the installation code if oil is received from an adjoining or integrated installation.
  
- \* Receipt Type Code<sup>2</sup> Enter the 2 digit ‘Receipt Type’ code to identify the type of oil flow transaction other than from a tanker, pipeline or adjoining installation.
  
- \* Volume Cubic metres (m<sup>3</sup>) of ‘net’ oil associated with each ‘other receipt’ reported during the month.

**‘OIL’ - Deliveries:**

- \* Name of Purchaser Enter the name of purchaser, working interest owner or other in the space provided.
  
- \* Purchaser or WIO Code<sup>1</sup> Enter the 3 digit code for purchaser or working interest owner.
  
- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code identifying the recipient of each oil delivery; i.e. either the tanker code, the pipeline code, or the installation code if the oil is delivered to an adjoining or integrated installation.

**Note: Where a tanker is employed by a number of purchasers or working interest owners to effect a combined lift of crude, the operator of the installation must detail on the NF-S2 the net volume of crude allocated to each purchaser or working interest owner. All oil deliveries assigned to a specific ‘Purchaser or WIO’ should be summed whenever a common tanker name is involved.**

- \* Delivery Type Code<sup>2</sup> Enter the 2 digit ‘Delivery Type’ code to identify the type of oil flow transaction other than to a tanker, pipeline or adjoining installation. Transactions may include:

Description	Code
• spills	04
• fire	08

- \* Volume Cubic metres (m<sup>3</sup>) of ‘net’ oil associated with each ‘delivery’ reported during the month.

**Note: Do not input ‘Name of Purchaser/WIO Code’, ‘Purchaser or WIO Code’, or ‘Tanker/Pipeline/ Installation Code’ for Volumes assigned a ‘Delivery Type Code’.**

<sup>1</sup> Refer to Appendix C - Schedule (a) for valid coding designations.

<sup>2</sup> Refer to Appendix C - Schedule (d) for additional coding designations which may apply.

**'OIL' - Totals:**

- \* Oil Production  
Total cubic metres (m<sup>3</sup>) of 'net' crude oil produced at the installation during the reporting month.  
  
This volume is the same as, and consequently must equal the volume of crude reported under the headings 'Total Installation Production' and 'Total Prorated Production' as reported on the Monthly Production Statement NF-S1.  
  
Oil Production = Total Deliveries + Closing Inventory - Total Other Receipts - Opening Inventory
  
- \* Total Other Receipts  
Total cubic metres (m<sup>3</sup>) of 'net' oil received as 'other receipts' from other sources (external to the installation) during the reporting month.  
  
Total Other Receipts = sum of all 'other receipt' volumes.
  
- \* Opening Inventory  
Cubic metres (m<sup>3</sup>) of oil held in inventory at the beginning of the reporting month. This is 'net' oil, i.e. gross volume less the entrained water volume (i.e. BSW volume).  
  
This volume must equal the previous month's closing inventory for oil.
  
- \* Closing Inventory  
Cubic metres (m<sup>3</sup>) of oil held in inventory at the end of the reporting month. This is 'net' oil, i.e. gross volume less the entrained water volume (i.e. BSW volume).  
  
This volume must become the next month's opening inventory for 'net' oil.
  
- \* Total Deliveries  
Total cubic metres (m<sup>3</sup>) of 'net' oil delivered to market or otherwise disposed of during the reporting month.  
  
Total Deliveries = sum of all oil 'delivery' volumes.

**‘GAS’ - Other Receipts:**

- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code for the source of ‘Other Receipts’ of gas received at the installation; i.e. either the pipeline code, or the installation code if gas is received from an adjoining or integrated installation.
  
- \* Receipt Type Code<sup>2</sup> Enter the 2 digit ‘Receipt Type’ code to identify the type of gas flow transaction other than from a pipeline or adjoining installation.
  
- \* Volume Cubic metres ( $10^3 \text{ m}^3$ ) of ‘net’ gas associated with each ‘other receipt’ reported during the month.

**‘GAS’ - Deliveries:**

- \* Name of Purchaser Enter the name of purchaser, working interest owner or other in the space provided.
  
- \* Purchaser or WIO Code<sup>1</sup> Enter the 3 digit code for purchaser or working interest owner.
  
- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code identifying the recipient of each gas delivery; i.e. either the tanker code, the pipeline code, or the installation code if the gas is delivered to an adjoining or integrated installation.

**Note: Where a pipeline is employed to transport gas to market, the operator of the installation must detail in the NF-S2 statement the volumes allocated to each purchaser or working interest owner.**

- \* Delivery Type Code<sup>2</sup> Enter the 2 digit ‘Delivery Type’ code to identify the type of gas flow transaction other than to a tanker, pipeline or adjoining installation, i.e.:

Description	Code
• fire	08

- \* Volume Cubic metres ( $10^3 \text{ m}^3$ ) of ‘net’ gas associated with each ‘delivery’ reported during the month.

**Note: Do not input ‘Name of Purchaser/WIO Code’, ‘Purchaser or WIO Code’, or ‘Tanker/Pipeline/ Installation Code’ for Volumes assigned a ‘Delivery Type Code’.**

<sup>1</sup> Refer to Appendix C - Schedule (a) for valid coding designations.

<sup>2</sup> Refer to Appendix C - Schedule (d) for additional coding designations which may apply.

**'GAS' - Totals:**

- \* Gas Production                      Total thousands of cubic metres ( $10^3 \text{ m}^3$ ) of 'net' gas produced at the installation during the reporting month.
- This volume is the same as, and consequently must equal the volume of gas reported under the headings 'Total Installation Production' and 'Total Prorated Production' as reported on the Monthly Production Statement NF-S1.
- Gas Production = Total Deliveries + Gas for Fuel + Gas Flared + Gas Vented + Metering Difference (+/-) - Total Other Receipts
- \* Total Other Receipts                      Total thousands of cubic metres ( $10^3 \text{ m}^3$ ) of 'net' gas received as 'Other Receipts' from other sources (external to the installation) during the reporting month.
- Total Other Receipts = sum of all 'other receipt' volumes.
- \* Gas Lift Gas Recovered                      Thousands of cubic metres ( $10^3 \text{ m}^3$ ) of gas lift gas recovered during the reporting month.
- This volume of gas must equal that volume of gas delivered to gas lift facilities for disposition to wells during the reporting month.
- \* Fuel                                      Thousands of cubic metres ( $10^3 \text{ m}^3$ ) of gas used as fuel during the reporting month.
- \* Flared                                      Thousands of cubic metres ( $10^3 \text{ m}^3$ ) of gas flared during the reporting month.
- \* Vented                                      Thousands of cubic metres ( $10^3 \text{ m}^3$ ) of gas vented to the atmosphere during the reporting month.
- The volume of gas vented to the atmosphere represents a safety concern and consequently must be kept to a minimum.
- \* Metering Difference (+/-)                      Thousands of cubic metres ( $10^3 \text{ m}^3$ ) of gas lost or gained due to metering difference during the reporting month. Indicate the sign(- or +) as to whether the gas volume reported represents a loss or a gain.
- The volume of gas lost or gained due to metering difference is a reflection of both metering accuracy and maintenance procedures and consequently should be kept to a minimum.
- \* Total Deliveries                      Total thousands of cubic metres ( $10^3 \text{ m}^3$ ) of 'net' gas delivered to market, to injection facilities or otherwise disposed of during the reporting month.
- Total Deliveries = sum of all gas 'delivery' volumes.

**‘Water’ - Other Receipts:**

- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code for the source of ‘Other Receipts’ of water; i.e. either tanker code, pipeline code, or installation code if water is received from an adjoining or integrated installation.
  
- \* Receipt Type Code<sup>2</sup> Enter the 2 digit ‘Receipt Type’ code to identify the type of water flow transaction other than from a tanker, pipeline or adjoining installation, i.e.:

Description	Code
• seawater for injection	22
• tank bottoms	12
  
- \* Volume Cubic metres (m<sup>3</sup>) of ‘net’ water associated with each ‘other receipt’ reported during the month.

**‘Water’ - Deliveries:**

- \* Name of Purchaser Where water has been acquired in association with oil shipments by tanker or by pipeline, enter the name of the oil shipment purchaser, working interest owner or other in the space provided.
  
- \* Purchaser or WIO Code<sup>1</sup> Enter the 3 digit code for purchaser or working interest owner.
  
- \* Tanker/Pipeline/Installation Code<sup>1</sup> Enter the code identifying the recipient of each water delivery; i.e. the tanker code, pipeline code, or the installation code if the water is delivered to an adjoining or integrated installation.

**Note: Where a tanker is employed by a number of purchasers or working interest owners to effect a combined lift of crude, the operator of the installation must detail on the NF-S2 the net volume of water allocated to each purchaser or working interest owner. All water deliveries assigned to a specific ‘Purchaser or WIO’ should be summed whenever a common tanker name is involved.**

- \* Delivery Type Code<sup>2</sup> Enter the 2 digit ‘Delivery Type’ code to identify the type of water flow transaction other than to a tanker, pipeline or adjoining installation, i.e.:

Description	Code
• water discharge to sea	07
  
- \* Volume Cubic metres (m<sup>3</sup>) of ‘net’ water associated with each ‘delivery’ reported during the month.

**Note: Do not input ‘Name of Purchaser/WIO Code’, ‘Purchaser or WIO Code’, or ‘Tanker/Pipeline/ Installation Code’ for Volumes assigned a ‘Delivery Type Code’.**

<sup>1</sup> Refer to Appendix C - Schedule (a) for valid coding designations.

<sup>2</sup> Refer to Appendix C - Schedule (d) for valid coding designations.

**'Water' - Totals:**

- \* Water Production      Total cubic metres (m<sup>3</sup>) of 'net' water produced at the installation during the reporting month.
- This volume is the same as, and consequently must equal the volume of water reported under the headings 'Total Installation Production' and 'Total Prorated Production' as reported on the Monthly Production Statement NF-S1.
- Water Production = Total Deliveries + Closing Inventory + Metering Difference (+/-) - Total Other Receipts - Opening Inventory
- \* Total Other Receipts      Total cubic metres (m<sup>3</sup>) of 'net' water received from other sources (external to the installation) during the reporting month.
- Total Other Receipts = sum of all 'other receipt' volumes.
- \* Opening Inventory      Cubic metres (m<sup>3</sup>) of 'net' water held in inventory at the beginning of the reporting month.
- This volume must equal the previous month's closing inventory for water.
- \* Closing Inventory      Cubic metres (m<sup>3</sup>) of 'net' water held in inventory at the end of the reporting month.
- This volume must become the next month's opening inventory for water.
- Note: Where the storage medium is open to the sea, the volume of water reported as inventory above is the volume of water entrained within the oil column. Where the storage medium is closed, the volume of water reported as inventory is the total volume of water metered to storage.**
- \* Metering Difference (+/-)      Cubic metres (m<sup>3</sup>) of 'net' water lost or gained due to metering difference during the reporting month. Indicate the sign (- or +) as to whether water volume reported represents a loss or a gain.
- The volume of water lost or gained due to metering difference is a reflection of metering accuracy and maintenance procedures and consequently should be kept to a minimum.
- \* Total Deliveries      Total cubic metres (m<sup>3</sup>) of 'net' water delivered in association with oil or otherwise disposed of during the reporting month.
- Total Deliveries = sum of all water 'delivery' volumes.

**NF-S2a**

**MONTHLY TANKER DETAILS WORKSHEET**

**Purpose of the NF-S2a:**

The NF-S2a conveys to the C-NOPB additional details related to monthly tanker loadings and shipments and is currently required in support of the NF-S2 Monthly Production Statement.

Additional details reported in this worksheet include tanker status (i.e. whether the tanker is in the process of loading or whether the tanker has shipped), the date shipped, the tanker destination, and the volumetric breakdown of product loaded or shipped during the month.

**What to report:**

The operator will be required to report the details associated with all tankers receiving deliveries as reported on the associated NF-S2 Monthly Disposition Statement.

**Assigned Codes:**

Where assigned codes are referenced in the following sections, the operator is referred to the appropriate schedule in Appendix C for the coding requirements applicable.

**Reference:**

Reference should be made to the hardcopy version of the NF-S2a statement (Appendix A) when following through the guidance provided in the following sections.

The electronic form for submission of the NF-S2a is combined with that for the NF-S2 submission found in Appendix B.



**Header Identification:**

Name and Address of Operator                      Indicate the name and mailing address of the operator of the installation.

Reporting Month Details:

- \* Year                      Refer to Appendix C - Schedule (a) for applicable coding. Enter the reporting year as a 4 digit numeral.
- \* Month                      Enter the reporting month as 01 to 12.
- \* Operator                      Enter the assigned alphanumeric code for operator.
- \* Field                      Enter the assigned alphanumeric code for field.
- \* Region                      Enter the assigned alphanumeric code for region.
- \* Installation                      Enter the assigned alphanumeric code for installation.

Amendment Month Details:

- \* Year                      Enter the amendment year as a 4 digit numeral.
- \* Month                      Enter the amendment month as 01 to 12.
- \* Day                      Enter the amendment day as 01 to 31.
- \* Code                      Enter the applicable 2 digit amendment code to indicate the primary reason for the amendment:

Amendment Description	Code*
* identification codes	01
* tanker status	25
* volumes	26
* date shipped	27
* destination	28
* other	50
* two or more of the above	99

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If both the NF-S2 and NF-S2a require amendments, and more than reason (code) exists for such change, then use code 99 on both the statement and worksheet as submitted and on the affected digital record being changed.**

Page \_\_\_ of \_\_\_.

Applicable to hardcopy submissions only. Enter the current page number relative to the total number of 8 1/2 inch by 14 inch (landscape) pages submitted.

**Tanker Details:**

Tanker Name Enter the tanker name in the space provided.  
Tanker id<sup>1</sup> Enter the assigned alphanumeric code for the tanker.

Purchaser/WIO Name Enter the name of the purchaser, working interest owner (WIO) or other in the space provided.  
Purchaser/WIO id<sup>1</sup> Enter the assigned alphanumeric code for the purchaser/WIO.

**Note: Where a tanker is employed by a number of purchasers or working interest owners to effect a combined lift of crude, the operator of the installation must detail in the NF-S2a statement the net volume of crude allocated to each purchaser or working interest owner.**

Tanker Status Enter the tanker status as of midnight at the end of the reporting month:  
\* where the tanker has left with its shipment enter 'S'.  
\* where the tanker is in the process of loading enter 'L'.

Loaded Summary Report the volumes<sup>2</sup> loaded during the reporting month.  
\* Gross Volume Enter the gross volume loaded (m<sup>3</sup>).  
\* BSW Fraction Enter the BSW fraction applicable to the loaded volume.  
\* Net Oil Volume Enter the net oil volume loaded (m<sup>3</sup>).  
\* Net Water Volume Enter the net water volume loaded (m<sup>3</sup>).

Date Shipped Enter the date the tanker shipped out (yyyymmdd) during the reporting month. Entries must be made in chronological order from the earliest to the latest shipment for the month.

Destination Enter the tanker destination for unloading (20 characters).

Shipped Summary Report the volumes<sup>2</sup> associated with the tanker shipment.  
\* Gross Volume Enter the gross volume shipped (m<sup>3</sup>).  
\* BSW Fraction Enter the BSW fraction applicable to the shipped volume.  
\* Net Oil Volume Enter the net oil volume shipped (m<sup>3</sup>).  
\* Net Water Volume Enter the net water volume shipped (m<sup>3</sup>).

**Note: For most tanker shipments, the 'Loaded Summary' and 'Shipped Summary' should agree. Only if a tanker is in the process of loading at midnight at the end of the reporting month will these summaries differ. In such instances, the volume loaded up to midnight should be reported. This volume must agree with the volume delivered to the tanker on the NF-S2 for the reporting month. 'Tanker Status' should reveal that the tanker was in the process of loading, and consequently the 'Date Shipped', 'Destination' and 'Shipment Summary' fields should be left blank. For the next month, the NF-S2a should report the incremental volume loaded prior to shipment, and the shipped volume would reflect the combined volumes loaded to the tanker during both months.**

<sup>1</sup> Refer to Schedule (a) - Appendix C for valid coding designations.

<sup>2</sup> Allocate volumes on the basis of each interest owners percentage in the shipment.

**NF-S18**

**MONTHLY INJECTION/DISPOSAL WORKSHEET**

**Purpose of the NF-S18:**

The NF-S18 reports monthly operations on an installation related to:

- \* water injection /disposal
- \* gas injection
- \* gas storage
- \* LPG storage
- \* solvent floods
- \* EOR injection

The NF-S18 is divided into 4 sections - 'Details of Receipts', 'Details of Injection/Disposal', 'Details of Other Deliveries' and 'Installation Summary'. These sections summarize the handling of product associated with the Injection/Disposal Facility.

'Details of Receipts' summarizes receipt of product for injection or disposal purposes. 'Details of Injection/Disposal' summarizes product injection or disposal on a well basis. 'Details of Other Deliveries' summarizes the disposition of left over product. 'Installation Summary' summarizes the usage of product associated with the Injection/Disposal Facility.

**Which wells to report:**

Report all capable injection wells (including experimental, commercial and cyclical wells) whether producing or shut in.

**Assigned Codes:**

Where assigned codes are referenced in the following sections, the operator is referred to the appropriate schedule in Appendix C for the coding requirements applicable.

**Reference:**

Reference should be made to the hardcopy version of the NF-S18 statement (Appendix A) when following through the guidance provided in the following sections.

The requirement for submission of the NF-S18 in electronic form is found in Appendix B.

**Header Identification:**

Name and Address of Operator Indicate the name and mailing address of the operator of the installation.

Reporting Month Details:

- \* Year Refer to Appendix C - Schedule (a) for applicable coding. Enter the reporting year as a 4 digit numeral.
- \* Month Enter the reporting month as 01 to 12.
- \* Operator Enter the assigned alphanumeric code for operator.
- \* Field Enter the assigned alphanumeric code for field.
- \* Region Enter the assigned alphanumeric code for region.
- \* Installation Enter the assigned alphanumeric code for installation.

Amendment Month Details:

- \* Year Enter the amendment year as a 4 digit numeral.
- \* Month Enter the amendment month as 01 to 12.
- \* Day Enter the amendment day as 01 to 31.
- \* Code Enter the applicable 2 digit amendment code to indicate the primary reason for the amendment:

Amendment Description	Code
• identification codes	01
* hours	03
* cycle number	04
* contact information	05
* receipts	07
* deliveries	08
* injection/disposal	09
* installation summary	10
* NF-S2/NF-S18 cross balance	12
* other	50
* two or more of the above	99

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If both the NF-S18 require amendments, and more than one reason (code) exists for such change, then use code 99 on the statement as submitted and on the affected digital record being changed.**

Page \_\_\_ of \_\_\_. Applicable to hardcopy submissions only. Enter the current page number relative to the total number of 8 1/2 inch by 14 inch (landscape) pages submitted.

**Contact Identification:**

Contact Name The operator must indicate the person responsible for the accuracy and integrity of submitted data.

Signature Where hardcopy is submitted to the Board in print form, provide the signature of the person responsible.

Date Enter the year, month and day the data was created.

Area Code/Telephone Provide the phone number of the person responsible.

**Details of Receipts:**

Well & Pool Identifier*	Refer to Schedule (b) - Appendix C for applicable coding.
* Field (Fld)	4 - field alphanumeric code
* Unit (U)	1 - field alphanumeric code (A through P)
* Section (Sec)	3 - field numeric code (001 through 100)
* Sequence of well (Seq)	3 - field numeric code (001 through 999)
* Sidetrack (S)	1 - field alphanumeric code (blank, Z through A)
* Well Name	Enter the well name in the space provided.
* Pool	6 - field alphanumeric code

**\* Employ only where the receipt volume is directly from a well.**

Installation id<sup>1</sup> Enter the installation id where the receipt of fluid is from an installation, tanker or pipeline.

Receipt Type Code<sup>2</sup> Enter the 2 digit 'Receipt Type' code to identify the type of fluid transaction other than from a well or installation, i.e.:

Description	Code
* seawater for injection	22

**Note: One and only one of the above three categories (Well & Pool Identifier, Installation id, Receipt Type Code) must be employed for any given 'Receipt Volume'.**

Receipt Fluid Code<sup>3</sup> Enter the 2 digit 'Receipt Fluid' code to identify the type of fluid received at the installation during the reporting month. Typical fluids received would include:

Description	Code	Units
* gas	02	10 <sup>3</sup> m <sup>3</sup>
* water	06	m <sup>3</sup>
* waste (i.e. cuttings)	08	m <sup>3</sup>
* solvent	09	10 <sup>3</sup> m <sup>3</sup>

Receipt Volume Enter the volume of fluid received from each source. Report in m<sup>3</sup> or 10<sup>3</sup> m<sup>3</sup> corresponding to the units for the type of fluid.

<sup>1</sup> Refer to Appendix C - Schedule (a) for valid coding designations.

<sup>2</sup> Refer to Appendix C - Schedule (d) for additional coding designations which may exist.

<sup>3</sup> Refer to Appendix C - Schedule (e) for additional fluid coding designations.

Gas Equivalent  
\* Factor

Applicable only for the fluids listed below.  
The multiplier used to convert 1 cubic metre of liquid into the volume of gas that the liquid would occupy in a gaseous state in 1000 cubic metres.

- \* available from the NGPSA Data Book
- \* minimum accuracy required is 3 decimal places
- \* applicable only to the following fluids:

- LPG	code 16
- condensate	code 18
- propane	code 53
- butanes	code 54
- ethane	code 55
- ethane plus	code 56
- pentanes plus	code 57

The gas equivalent factor must be based on an analysis of a representative sample of the fluid received. The analysis and factor must further be updated annually or more frequently if the composition varies.

\* Volume

Enter the gas equivalent volume ( $10^3 \text{ m}^3$ ).

Gas Equivalent Volume = Gas Equivalent Factor x Receipt  
Volume.

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**Details of Injection/Disposal:**

Well & Pool Identifier	Refer to Appendix C - Schedule (b) for coding requirements.
* Field (Fld)	4 - field alphanumeric code
* Unit (U)	1 - field alphanumeric code (A through P)
* Section (Sec)	3 - field numeric code (001 through 100)
* Sequence of well (Seq)	3 - field numeric code (001 through 999)
* Sidetrack (S)	1 - field alphanumeric code (blank, Z through A)
* Well Name	Enter the well name in the space provided.
* Pool	6 - field alphanumeric code
Cycle Number	For wells involved in cycling operations, enter the cycle number. Where cycling operations are conducted: * repeat the well and pool identifier for each cycle number; * enter a consecutive number for each cycle commencing with cycle # 1 for the first month in which injection operations occur at a cyclical well.
Warm-Up Code	Applicable to heavy oil operations employing steam stimulation only, this single digit code is used to identify warm-up operations prior to commencement of a new cycle.  Where such operations are conducted: * the operator is to assign codes A to Z sequentially within a specified cycle number; * ensure that the well and pool identifier, cycle number, CCI code, hours injected and WHP are entered in association with each warm up phase.
CCI Code	Consecutive or concurrent injection code (single digit) for injection of two or more fluids into a pool at a well.  Where two or more fluids are injected into a pool at a well: * codes 1 to 6 are used to retain injection information according to the line on which it is reported; * if two or three fluids are injected concurrently, enter the fluids on the same line with CCI code 1 * if four to six fluids are injected concurrently, enter three fluids on the first line with CCI code 1 and the remaining fluids on a second line with CCI code 2; * if two or more fluids are injected consecutively, enter each fluid on a separate line with consecutive CCI codes, commencing with 1 for the first fluid.

**Note: The CCI code is left blank if the well injects only one fluid during the month.**



Steam Quality % Report as a whole number the average quality of steam volume injected during the month expressed as a percentage.

Hours Injected Report to the nearest hour the total hours of injection or disposal during the month. Ensure that hours for the production phase of a cyclical well are excluded.

**Note: The sum of hours associated with the production and injection cycles for a given well must not exceed the hours available in the given month.**

WHP (kPag) Report as a whole number the average wellhead pressure during the month.

Injection/Disposal:

\* Fluid<sup>1</sup>

Enter the 2 digit 'Fluid' code to identify the type of fluid injected or disposed during the month. Typical fluids include:

Description	Code	Units
* gas	02	10 <sup>3</sup> m <sup>3</sup>
* water	06	m <sup>3</sup>
* waste (i.e. cuttings)	08	m <sup>3</sup>
* solvent*	09	m <sup>3</sup>
* steam**	10	m <sup>3</sup>
* air	11	10 <sup>3</sup> m <sup>3</sup>
* nitrogen	15	10 <sup>3</sup> m <sup>3</sup>
* xylene	70	m <sup>3</sup>

\* includes LPG, condensate, propane, butanes, ethane, ethane plus, and pentanes plus which are converted to gas equivalent and summed as solvent.

\*\* cold water equivalent volume.

\* Volume

Volume of each fluid injected or disposed to each well during the month (m<sup>3</sup> or 10<sup>3</sup> m<sup>3</sup> corresponding to the fluid).

<sup>1</sup> Refer to Appendix C - Schedule (e) for additional fluid code designations.

**Details of Other Deliveries:**

Installation id<sup>1</sup> Enter the 'installation id' to identify the destination of the fluid being delivered.

Delivery Type<sup>2</sup> Enter the 2 digit 'Delivery Type' code to identify the type of transaction other than to an installation. Typical transactions include:

Description	Code
• spills	04
• water discharged to sea	07
* fire	08

**Note: Enter either the 'Installation id', or 'Delivery Type' but not both in association with a given delivery volume.**

Delivery Fluid<sup>3</sup> Enter the 2 digit 'Delivery Fluid' code to identify the type of fluid delivered or otherwise disposed of during the month. Typical fluids include:

Description	Code	Units
* gas	02	10 <sup>3</sup> m <sup>3</sup>
* oil	03	m <sup>3</sup>
* water	06	m <sup>3</sup>
* waste (cuttings)	08	m <sup>3</sup>
* diesel oil	58	m <sup>3</sup>

Delivery Volume Enter the volume ( m<sup>3</sup> or 10<sup>3</sup> m<sup>3</sup> ) of the fluid either delivered or otherwise disposed.

<sup>1</sup> Refer to Appendix C - Schedule (a) for valid coding requirements for installations.

<sup>2</sup> Refer to Appendix C - Schedule (d) for additional coding designations which may exist.

<sup>3</sup> Refer to Appendix C - Schedule (e) for additional coding designations for fluid type.

**Installation Summary:**

Summary Fluid<sup>1</sup>

Enter the 2 digit 'Summary Fluid' code to identify the type of fluid received at the installation during the month. Typical fluids include:

Description	Code	Units
* gas	02	10 <sup>3</sup> m <sup>3</sup>
* water	06	m <sup>3</sup>
* waste (i.e. cuttings)	08	m <sup>3</sup>
* solvent*	09	m <sup>3</sup>
* diesel oil	58	m <sup>3</sup>

\* **includes LPG, condensate, propane, butanes, ethane, ethane plus, and pentanes plus must be converted to gas equivalent and summed together with solvent - summary fluid 09.**

Total Receipts

Enter the total volume of a particular fluid received at an installation during the month.

The sum of receipts for each fluid reported under 'Details of Receipts' must balance against 'Total Receipts' for that fluid, except for solvent which would include a combination of fluids as detailed below.

Total Receipts for solvent = solvent (code 09)  
 + LPG (code 16<sup>2</sup>)  
 + condensate (code 18<sup>2</sup>)  
 + propane (code 53<sup>2</sup>)  
 + butanes (code 54<sup>2</sup>)  
 + ethane (code 55<sup>2</sup>)  
 + ethane plus (code 56<sup>2</sup>)  
 + pentanes plus (code 57<sup>2</sup>).

Opening Inventory

Enter the total volume by fluid<sup>2</sup> held in inventory at the injection/disposal facility at the beginning of the month.

Closing Inventory

Enter the total volume by fluid<sup>2</sup> held in inventory at the injection/disposal facility at the end of the month.

**Note: Employ 'Opening Inventory' and 'Closing Inventory' above to report the storage of fluids required for injection purposes.**

<sup>1</sup> Refer to Schedule (e) - Appendix C for additional fluid code designations.

<sup>2</sup> Inventories of LPG, condensate, propane, butane, ethane, ethane plus, pentanes plus are reported in gas equivalent volumes as solvent, summary fluid 09.



**APPENDIX A**

**FORMAT FOR HARDCOPY SUBMISSION**

**TO THE**

**C-NOPB**

## **Introduction:**

This section contains the prescribed formats for hardcopy submission of the NF-S1, NF-S1a, NF-S2, NF-S2a and NF-S18 monthly statements and worksheets to the C-NOPB.

**The data contained in the statements and worksheets found in Appendix A have been fabricated and are provided both for illustrative purposes, and as the basis upon which an operator tests for compliance of its hardcopy and electronic data submission to the Board prior to a field going into production.**

General requirements applicable to all statements or worksheets:

- \* The formats provided serve as templates from which an operator should design its reporting system. Each statement or worksheet consists of 'header' information, one or more 'data' sections specific to the statement or worksheet, and 'contact' information.

The 'header' located on the top of each page identifies the operator, producing year/month, field, region, installation, amendment status and page number. The 'header' must be repeated on each page of the statement or worksheet.

The data portion of the statement or worksheet is arranged into one or more 'data' sections. Each 'data' section should be completed before another is started with summary data, such as totals being provided at the end of each 'data' section.

The 'contact' identifies the contact person designated by the operator to be responsible for the data submitted to the C-NOPB. The 'contact' must exist on the last page of the statement or worksheet. Each statement or worksheet must be signed by the person responsible.

- Hardcopy submissions must be made on 8 1/2 by 14 inch (landscape) paper numbered consecutively with reference to the total number of pages comprising each statement or worksheet.

**An operator must submit the Monthly Production Report to the Board no later than the 15<sup>th</sup> day of the month following the month of production.**

## **Scenario for Testing Submission Compliance**

This 'field scenario' has been created for the purpose of testing an operator's compliance with the Board's 'hardcopy' and 'electronic' format submission requirements prior to a field going into production. The scenario is based upon fictitious data for a field 'ABC' producing in the North Grand Banks (NGB) region offshore Newfoundland and Labrador and operated by operator 'OPRT'. The producing month is March 2000 during which the field commenced production. The field went into production with 7 wells, 4 oil producers, 2 gas injectors and 1 water injector. The statements suggest a single integrated production installation - ABCI01 with an associated on-line 'injection facility' - ABCI01I.

An operator is required to duplicate in 'hardcopy' form the 3 statements (NF-S1, NF-S2 and NF-S18) and 2 worksheets (NF-S1a, NF-S2a) provided in Appendix A, and construct the ASCII file that is required as part of the monthly 'electronic' submission to the Board. The intent here will be to identify and correct as many errors as possible in an operator's reporting system prior to initiating production. Testing for compliance should commence 3 months prior to anticipated production.

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**APPENDIX B**

**FORMAT FOR ELECTRONIC SUBMISSION**

**TO THE**

**C-NOPB**

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### Introduction:

The following pages highlight the structure of data records required for 'electronic' submission of the NF-S1, NF-S2, NF-S18 data and additionally NF-S1a and NF-S2a data to the C-NOPB. The submission of data in this form is required to populate the C-NOPB's production accounting database.

The following guidance is provided:

- \* The format to be followed in 'electronic' submission of the monthly production report to the Board will consist of a single data file comprised of data records which make up the required statements and worksheets.
- \* The current production month's NF-S1, NF-S1a, NF-S2, NF-S2a, and NF-S18 data should be submitted as a separate data file to any amendments submitted for prior months.
- \* The following rules apply to the creation of a data file:
  - \* The data file must be an ASCII formatted flat file (text only), i.e. no commas or decimals within the data records;
  - \* The data file must start with the header record (N000) unique to the creation date of that file;
  - \* The statements for the producing year/month must follow in the sequence NF-S1 records first followed by NF-S2 records then NF-S18 records;
  - \* Where amendment data is contained within a data file, the complete data set consisting of all statements and associated worksheet records must be submitted regardless if it is affected by amended data or not;
  - \* Within each statement, the data records must follow in proper sequence, i.e. the data records for the NF-S1 statement must follow the sequence N011, N012, N015, ending with N019;
  - \* Do not include data records where data does not exist;
  - \* The data records which make up the data file must be no longer than 180 bytes in length, and ended with a single end-of-line carriage return;
  - \* Each data record is typically comprised of multiple data elements. An element will have a fixed length of so many characters or bytes and may be numeric or alphanumeric in nature. Numeric data elements are right justified while alphanumeric data elements are left justified. A numeric data element will have a format of 9(x)v9(y) with 'x' representing the number of places before the decimal, and 'y' representing the number of places after the decimal. 'x' + 'y' must equal the length of the data element. An alphanumeric data element will have a format of X(x) with 'x' representing the length of the data element. All alphanumeric data elements must be upper case where the data element represents an id or code;
  - \* Where codes are required, please ensure that the required number of digits are provided;
  - \* The data file must be terminated with a single end-of-line carriage return.
- \* The data file should be submitted to the Board on Compact Disk or via email.
- \* The operator must verify each month the accuracy and contents of the data file prior to submission to the C-NOPB.

An example of a 'data file' as required by the C-NOPB is provided at the end of Appendix B. This 'data file' represents real data as submitted by the operator of the Hibernia Field in association with the March 1999 Production Month for that field.

**Note: All operators will be required to check for compliance of their reporting system with the Board's reporting requirements. Please refer to Appendix A for the basis for testing compliance with Board requirements.**

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**Header Record (Record Type N000)**

Each data file should contain a header record (record type N000) which will indicate the creation date and time the file was created as well as the company name and processing year and current month for processing purposes.

Element Name	Start Pos'n	Length	Format	Comments
Processing year/month	1	6	X(6)	'YYYYMM'
Operator id	7	7	X(7)	
Filler	14	17	X(17)	'blank'
Record type	31	4	X(4)	'N000'
Company name	35	56	X(56)	
Data creation date	91	8	9(8)	'YYYYMMDD'
Data creation time	99	6	9(6)	'HHMMSS'
Filler	105	76	X(76)	'blank'

**Note: The 'Data creation date' and 'Data creation time' is unique to the data file as created or amended. The 'Data creation date' cannot precede either the 'Statement year/month' or the 'Amendment date' input on subsequent statement records.**

**NF-S1 Monthly Production Statement**

The monthly production statement consists of up to 4 records types:

- \* well detail records for reporting individual well production data (one or more records) -- 'N011'
- \* installation total record for reporting installation total production data (one record) -- 'N012'
- \* test proration details records for reporting individual well test details (one or more records) -- 'N015'
- \* installation contact record for reporting the name and contact details of the person to be contacted in case of a reporting discrepancy (one record) -- 'N019'.

**a. S-1 Record description - Well Details (Record Type N011)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N011'
Well id - Field	35	4	X(4)	
Well id - Unit	39	1	X(1)	
Well id - Section	40	3	9(3)	
Well id - Sequence	43	3	9(3)	
Well id - Sidetrack	46	1	X(1)	
Pool id	47	6	X(6)	
Water-gas ratio date	53	8	9(8)	'YYYYMMDD'
Water-gas ratio	61	6	9v9(5)	
Gas-oil ratio	67	4	9(3)v9	
Cycle number	71	2	9(2)	
Condensate flag	73	1	X(1)	'Y - condensate, N - oil'
Estimated oil/condensate	74	8	9(7)v9	
Estimated gas	82	8	9(7)v9	
Estimated water	90	8	9(7)v9	
Measured hours produced	98	3	9(3)	
Measured oil/condensate	101	8	9(7)v9	
Measured gas	109	8	9(7)v9	
Measured water	117	8	9(7)v9	
Prorated hours produced	125	3	9(3)	
Number of tests taken	128	2	X(2)	
Prorated oil/condensate	130	8	9(7)v9	
Prorated gas	138	8	9(7)v9	
Prorated water	146	8	9(7)v9	
Filler	154	27	X(27)	'blank'

**b. S-1 Record Description - Installation Total (Record Type N012)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N012'
Total estimated oil/condensate	35	9	9(8)v9	
Total estimated gas	44	9	9(8)v9	
Total estimated water	53	9	9(8)v9	
Total measured oil/condensate	62	9	9(8)v9	
Total measured gas	71	9	9(8)v9	
Total measured water	80	9	9(8)v9	
Oil/condensate proration factor	89	7	9(2)v9(5)	
Gas proration factor	96	7	9(2)v9(5)	
Water proration factor	103	7	9(2)v9(5)	
Total prorated* oil/condensate	110	9	9(8)v9	
Total prorated* gas	119	9	9(8)v9	
Total prorated* water	128	9	9(8)v9	
Filler	137	44	X(44)	'blank'

**\* The sum of prorated production allocated to wells on the N011 records must equal the total(s) for prorated production reported here.**

---



**c. S-1 Record Description - Test Proration Details (Record Type N015)**

These data records are required in support of the Monthly Production Statement.

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N015'
Well id - Field	35	4	X(4)	
Well id - Unit	39	1	X(1)	
Well id - Section	40	3	9(3)	
Well id - Sequence	43	3	9(3)	
Well id - Sidetrack	46	1	X(1)	
Pool id	47	6	X(6)	
Test date	53	8	9(8)	'YYYYMMDD'
Rate reduction	61	1	X(1)	Y/N
Test duration	62	3	9(3)	
Stabilized flow duration - test	65	3	9(3)	
Oil/condensate rate - test	68	8	9(6)v9(2)	
Gas rate - test	76	8	9(6)v9(2)	Less gas lift gas
Water rate - test	84	8	9(6)v9(2)	
Reservoir pressure	92	5	9(5)	
Reservoir bubble point pressure	97	5	9(5)	
Flowing bottomhole pressure - test	102	5	9(5)	
Flowing wellhead pressure - test	107	5	9(5)	
Static wellhead shut-in pressure - test	112	5	9(5)	
Backpressure coefficient-downhole - test	117	7	9(2)v9(5)	
Backpressure coefficient-wellhead - test	124	7	9(2)v9(5)	
Producing hours - main flow	131	3	9(3)	
Flowing bottomhole pressure - main flow	134	5	9(5)	
Flowing wellhead pressure - main flow	139	5	9(5)	
Estimated production* oil/condensate	144	8	9(7)v9	
Estimated production* gas	152	8	9(7)v9	
Estimated production* water	160	8	9(7)v9	
Filler	168	13	X(13)	'blank'

**\* The estimated production for oil, gas and water above when summed from test to test should equal the estimated production of oil, gas and water for a well as reported on the N011 record for the producing month.**

**d. S-1 Record Description - Installation Contact (Record Type N019)**

Element Name	Start Pos'n	Length	Format	Comments
Statement yr/mth	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N019'
Contact name	35	20	X(20)	
Contact telephone	55	10	9(10)	
Filler	65	116	X(116)	'blank'

---

**NF-S2 Monthly Disposition Statement**

The Monthly Disposition Statement consists of up to 5 distinct record types:

- \* product receipts records\* (one or more records) -- 'N021'
- \* product deliveries records\* (one or more records) -- 'N022'
- \* product totals record\* (one record) -- 'N023'
- \* tanker shipment details records (one or more records) --'N025'
- \* installation contact record for reporting the name and contact details of the person to be contacted in case of a reporting discrepancy (one record) --'N029'.

\* **The N021, N022 and N023 records require use of a product code to identify the product as oil, gas or water.**

**a. S-2 Record Description - Product Receipts (Record Type N021)**

Element Name	Start Pos'n	Length	Format	Comments
Statement yr/mth	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N021'
Product code	35	2	X(2)	01-Oil, 02-Gas, 03-Water
Product other receipts-t/p/i id	37	7	X(7)	Appendix C, Schedule (a)
Product other receipts-receipt type	44	2	9(2)	
Product other receipts-volume	46	9	9(8)v9	
Filler	55	126	X(126)	'blank'

---

**b. S-2 Record Description - Product Deliveries (Record Type N022)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N022'
Product code	35	2	X(2)	01-Oil, 02-Gas, 03-Water
Product delivery-purchaser id	37	3	X(3)	Appendix C, Schedule (a)
Product delivery- t/p/i id	40	7	X(7)	Appendix C, Schedule (a)
Product delivery-delivery type	47	2	9(2)	
Product delivery-volume	49	9	9(8)v9	
Filler	58	123	X(123)	'blank'

---

**c. S-2 Record Description - Product Totals (Record Type N023)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N023'
Product code	35	2	X(2)	01-Oil, 02-Gas, 03-Water
Production volume	37	9	9(8)v9	Oil,Gas,Water
Other receipts	46	9	9(8)v9	Oil,Gas,Water
Opening inventory	55	9	9(8)v9	Oil,Water
Closing inventory	64	9	9(8)v9	Oil,Water
Artificial lift gas recovered	73	7	9(6)v9	Gas
Fuel	80	7	9(6)v9	Gas
Flared	87	7	9(6)v9	Gas
Vented	94	7	9(6)v9	Gas
Metering difference	101	7	9(6)v9	Gas,Water
Metering difference sign	108	1	X(1)	Gas,Water
Total deliveries	109	9	9(8)v9	Oil,Gas,Water
Filler	118	63	X(63)	'blank'

\* The 'production volume' reported above for oil, gas and water represents the 'Total Installation Production' for oil, gas and water carried forward and reported on the NF-S1 hardcopy statement.

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**d. S-2 Record Description - Tanker Shipment Details (Record Type N025)**

These data records are required in support on the Monthly Disposition Statement.

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N025'
Tanker name	35	15	X(15)	
Tanker id	50	7	X(7)	
Name of Purchaser/WIO	57	20	X(20)	
Purchaser/WIO id	77	3	X(3)	
Tanker status*	80	1	X(1)	L-loading, S-shipped
Gross volume loaded	81	9	9(8)v9	
BSW fraction loaded	90	8	9v9(7)	
Net oil volume loaded	98	9	9(8)v9	
Net water volume loaded	107	9	9(8)v9	
Date shipped	116	8	9(8)	'YYYYMMDD'
Destination	124	20	X(20)	
Gross volume shipped	144	9	9(8)v9	
BSW fraction shipped	153	8	9v9(7)	
Net oil volume shipped	161	9	9(8)v9	
Net water volume shipped	170	9	9(8)v9	
Filler	179	2	X(2)	'blank'

**\* Where 'L' is coded indicating the tanker in question was in the process of loading at month end, the data entry fields including 'Date shipped' through to 'Net water volume shipped' must be left blank.**

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**e. S-2 Record Description - Installation Contact Data (Record Type N029)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N029'
Contact name	35	20	X(20)	
Contact telephone	55	10	9(10)	
Filler	65	116	X(116)	'blank'

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**NF-S18 Monthly Injection/Disposal Statement**

The Monthly Injection/Disposal Statement consists of up to 5 distinct record types:

- \* details of receipts records (one or more records) -- 'N181'
- \* details of injection/disposal records (one or more records) -- 'N182'
- \* details of other deliveries records (one or more records) -- 'N183'
- \* installation summary record (one record) -- 'N184'
- \* installation contact record (one record) -- 'N189'.

**a. S-18 Record Description - Details of Receipts (Record Type N181)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N181'
Source water well id - Field	35	4	X(4)	
Source water well id - Unit	39	1	X(1)	
Source water well id - Section	40	3	9(3)	
Source water well id - Sequence	43	3	9(3)	
Source water well id - Sidetrack	46	1	X(1)	
Pool id	47	6	X(6)	
Receipt installation id	53	7	X(7)	
Receipt type	60	2	9(2)	
Receipt fluid	62	2	9(2)	
Receipt volume	64	9	9(8)v9	
Gas equivalent-factor	73	6	9v9(5)	
Gas equivalent-volume	79	9	9(8)v9	
Filler	88	93	X(93)	'blank'

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**b. S-18 Record Description - Details of Injection/Disposal (Record Type N182)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N182'
Inj/disp well id-Field	35	4	X(4)	
Inj/disp well id-Unit	39	1	X(1)	
Inj/disp well id-Section	40	3	9(3)	
Inj/disp well id-Sequence	43	3	9(3)	
Inj/disp well id-Sidetrack	46	1	X(1)	
Pool id	47	6	X(6)	
Cycle number	53	2	9(2)	
Warm-up code	55	1	X(1)	
Concur/consec injection code	56	1	X(1)	
Steam quality %	57	3	9(3)	
Hours injected	60	3	9(3)	
Wellhead pressure (kpa)	63	5	9(5)	
Inj'n/disp fluid 1-code	68	2	9(2)	
Inj'n/disp fluid 1-volume	70	8	9(7)v9	
Inj'n/disp fluid 2-code	78	2	9(2)	
Inj'n/disp fluid 2-volume	80	8	9(7)v9	
Inj'n/disp fluid 3-code	88	2	9(2)	
Inj'n/disp fluid 3-volume	90	8	9(7)v9	
Filler	98	83	X(83)	'blank'

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**c. S-18 Record Description - Details of Other Deliveries (Record Type N183)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N183'
Other deliveries-installation id	35	7	X(7)	
Delivery type	42	2	9(2)	
Delivery fluid	44	2	9(2)	
Delivery volume	46	9	9(8)v9	
Filler	55	126	X(126)	'blank'

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**d. S-18 Record Description - Installation Summary (Record Type N184)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N184'
Summary fluid	35	2	9(2)	
Total receipts	37	9	9(8)v9	
Opening inventory	46	9	9(8)v9	
Closing inventory	55	9	9(8)v9	
Total other deliveries	64	9	9(8)v9	
Flared	73	7	9(6)v9	
Fuel	80	7	9(6)v9	
Metering difference	87	7	9(6)v9	
Metering difference sign	94	1	X(1)	
Total injection/disposal	95	9	9(8)v9	
Filler	104	77	X(77)	'blank'

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**e. S-18 Record Description - Installation Contact (Record Type N189)**

Element Name	Start Pos'n	Length	Format	Comments
Statement year/month	1	6	9(6)	'YYYYMM'
Operator id	7	7	X(7)	
Installation id	14	7	X(7)	
Amendment date	21	8	9(8)	'YYYYMMDD'
Amendment code	29	2	9(2)	
Record type	31	4	X(4)	'N189'
Contact name	35	20	X(20)	
Contact telephone	55	10	9(10)	
Filler	65	116	X(116)	'blank'

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**APPENDIX C - ASSIGNED ID'S AND CODE'S**

**Schedule (a) - Identification Id's**

- \* **Region's**
- \* **Field's**
- \* **Operator's**
- \* **Installation's**
- \* **Tanker's**
- \* **Pipeline's**
- \* **Purchaser's/Working Interest Owner's**

**Schedule (b) - Well & Pool Coding Requirements**

**Schedule (c) - Amendment Codes**

**Schedule (d) - Receipt/Delivery Type Codes**

- \* **Receipt Type**
- \* **Delivery Type**

**Schedule (e) - Fluid Codes**

- \* **Receipt Fluid**
  - \* **Injection/Disposal Fluid**
  - \* **Delivery Fluid**
  - \* **Summary Fluid**
-

**Schedule (a) - Identification ID's**

**Region's:**

There are 5 region ID's assigned to the Newfoundland and Labrador Offshore Area in accordance with Figure 1 of this document. They are:

* Labrador Shelf	LS
* Northeast Newfoundland Shelf	NNS
* North Grand Banks	NGB
* South Grand Banks	SGB
* Western Newfoundland	WN

**Field's:**

Field ID's have been assigned to the following Field's currently in production, undergoing development, in the Development Plan Approval process, or being considered for Extended Formation Flow Testing:

* Hibernia Field	HIB
* Terra Nova Field	TNV
* Whiterose Field	WRS
* North Amethyst	NA
* Hebron Field	HBR

**Operator's:**

ID's have been assigned to the following operator's of Fields:

* Hibernia Management Development Company	HMDC
* Hibernia Field	
* Suncor Energy	SUNCOR
* Terra Nova Field	
* Husky Oil	HUSKYOL
* White Rose Field	

**Installation's:**

ID's have been assigned to installations/facilities currently in place:

Hibernia Field:

* Production Platform - Production Facility	HIBI01
* Production Platform - Injection Facility	HIBI01I
* Production Platform - Gas Lift Facility	HIBI01L

Terra Nova Field:

* FPSO - Production Facility	TNVI01
* FPSO - Injection Facility	TNVI01I
* FPSO - Gas Lift Facility	TNVI01L

White Rose Field:

* FPSO - Production Facility	WRSI01
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* FPSO - Injection Facility	WRSI01I
* FPSO - Gas Lift Facility	WRSI01L

**Schedule (a) - Identification ID's (cont'd)**

**Tanker's:**

ID's have been assigned to the following tankers\* currently in place:

* Tanker - Kometik	KOMETIK
* Tanker - Mattea	MATTEA
* Tanker - Vinland	VINLAND
* Tanker - Jasmine Knutsen	JASMINE
* Tanker - Heather Knutsen	HEATHER
* Tanker - Catherine	CATHERI

**Note: It is recognized that tankers can be assigned to any number of producing fields.**

**Pipeline's:**

ID's have been assigned to the following gathering pipelines currently in place:  
(none in place)

**Purchaser's/Working Interest Owner's:**

ID's\* have been assigned to the following purchasers/working interest owner's:

Hibernia Field (Series 100):

* Hibernia Management Development Company (Installation Requirements)	100
* ExxonMobil Canada Properties	101
* Chevron Canada Resources	102
* Petro-Canada Hibernia Partnership	103
* Canada Hibernia Holding Corporation	104
* Murphy Atlantic Offshore Oil Company Ltd.	105
* Chevron Hibernia Holding Company Ltd. (code 102 used from Dec 2000 onward)	106
* ExxonMobil Canada Hibernia Company Ltd.	107
* Norsk Hydro Canada Oil & Gas Inc.	108
* Suncor Energy Inc.	110
* Statoil Canada Ltd	111

Terra Nova Field (Series 200):

* Petro-Canada (Installation Requirements)	200
* Petro-Canada	201
* ExxonMobil Canada Ltd.	202
* Norsk Hydro Canada Oil & Gas Inc.	203
* Husky Oil Operations Limited	204
* Murphy Oil Company Ltd.	205
* Mosbacher Operating Ltd.	206
* Chevron Canada Limited	207
* Suncor Energy Inc.	208

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White Rose Field (Series 300)

* Husky Oil Operations Limited (Installation Requirements)	300
* Husky Oil	301
* Petro-Canada	302
* Suncor Energy Inc.	303
* Nalcor	304

**\* The x00 id has been assigned to the operator of each field to account for volumes of product required by the installation for operational purposes, i.e. injection requirements.**

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**Schedule (b) - Well & Pool Coding Requirements**

**Wells:**

A well shall be identified by the following 5 entities; 'Field', 'Unit', 'Section', 'Sequence', and 'Sidetrack'. The specifics respecting coding of these entities is as follows:

<u>Entity</u>	<u>Length/Format</u>	<u>Description</u>
Field	X(4)	The first 3 characters abbreviate the Field name, i.e. 'HIB' to denote the Hibernia Field. The 4th character identifies the field extension, if applicable (i.e. S-south).
Unit*	X(1)	A-P identifies in which unit the well resides.
Section*	9(3)	1-100 identifies in which section the well resides.
Sequence	9(3)	1-999 identifies the sequence number of a well from a common surface location in accordance with the date spuded.
Sidetrack	X(1)	Starting with 'Z' to represent the first sidetrack, use the reverse alphabet to identify the track of the well. If a well is sidetracked and the abandoned part of the well has significant data (i.e. logs, MWD and/or core) the sidetrack is to be distinguished by 'Z'.  The forward alphabet A, B, C etc. is reserved for 're-spuds'. A well should be designated a re-spud when the original attempt to drill the well fails for any reason at or near the surface and another well must be started at or near the surface to drill the same target. The first re-spud attempt would be designated 'A' and the second attempt designated 'B'. A re-spuded well which was later sidetracked would have the first sidetracked leg of the well designated 'Z' in accordance with the reverse alphabet convention.

**\* denotes the surface (sea floor) location at which the well was spuded.**

**Pools:**

The coding for 'Pool' will be a 6 field alphanumeric string recognizable with approved pool designations, i.e. the Hibernia Field - Hibernia reservoir B4 pool would have a pool id of 'HIBB4\*'. The first 3 fields denotes the reservoir. The 4<sup>th</sup> and 5<sup>th</sup> fields denotes the pool, and the last character field is reserved should the B4 pool in future be recognized as two separate pools as currently possible by the existing zone designation. Should this occur, 'HIBB4\*' would be subdivided into 2 pools, 'HIBB41' and 'HIBB42'.

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**Schedule (c) - Amendment Coding**

The following amendment coding applies when filing amendments to the NF-S1, NF-S1a, NF-S2, NF-S2a and the NF-S18 monthly statements or worksheets.

An operator must specify the 2 digit code that best represents the changes to the particular statement or worksheet. Where changes being made are not adequately represented by the codes provided or where multiple codes apply the operator should use code 50 or 99 as may be appropriate.

Description	Code	NF-S1	NF-S1a	NF-S2	NF-S2a	NF-S18
* Identification Codes	01	✓	✓	✓	✓	✓
* Proration	02	✓				
* Hours	03	✓				✓
* Cycle Number	04	✓				✓
* Contact Information	05	✓	✓	✓	✓	✓
* S1/S2 Cross Balance	06	✓		✓		
* Receipts	07			✓		✓
* Deliveries	08			✓		✓
* Injection/Disposal	09					✓
* Product/Installation Summary	10			✓		✓
* S2/S18 Cross Balance	12			✓		✓
* TPW* - Hours	15		✓			
* TPW - Rates	16		✓			
* TPW - Pressures	17		✓			
* TPW - Coefficients	18		✓			
* TPW - Estimated Production	19		✓			
* TDW* - Tanker Status	25				✓	
* TDW - Volumes	26				✓	
* TDW - Date Shipped	27				✓	
* TDW - Destination	28				✓	
* Other	50	✓	✓	✓	✓	✓
* Two or more of the above	99	✓	✓	✓	✓	✓

**Note: Only 1 code may be used in association with any amended statement or its associated worksheet. If either a statement or its worksheet requires amendments, and more than one reason (code) exists for such change, then code 99 must be used on the statement or worksheet as submitted and on the affected digital record being changed.**

- \* TPW - Monthly Test Proration Worksheet
- \* TDW - Monthly Tanker Details Worksheet

**Schedule (d) - Receipt and Delivery Type Codes**

'Receipt Type' and 'Delivery Type' codes are required where necessary on both the NF-S2 Monthly Disposition Statement and the NF-S18 Monthly Injection/Disposal Statement to identify the type of transaction associated with the volume received or delivered where this volume is other than from or to an installation, tanker or pipeline.

**Receipt Type Codes:**

<b>Code</b>	<b>Description</b>
12	* tank bottoms which would include both closed tanks and seawater influx within dynamic storage tanks, i.e. Hibernia GBS Storage.
22	* seawater pumped onboard at site to meet water injection well requirements.
32	* fluid other than water, transferred from a support vessel to a producing facility.

**Delivery Type Codes:**

<b>Code</b>	<b>Description</b>
04	* spills to the ocean
07	* produced water discharge to the ocean
08	* fire
12	* tank bottoms which would include both closed tanks and produced water outflow to the ocean from within dynamic storage tanks, i.e. Hibernia GBS Storage.

**Note: Where use of 'Receipt Type' or 'Delivery Type' codes identify the type of transaction associated with the volume, no additional coding for installations, tankers, pipelines or wells is permitted.**

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**Schedule (e) - Fluid Codes**

Four categories exist for fluid codes, all specific to the NF-S18 Monthly Injection/Disposal Statement. These include 'Receipt Fluid', 'Injection/Disposal Fluid', 'Delivery Fluid' and 'Summary Fluid'.

**Receipt Fluid:**

'Receipt Fluid' is used in association with the 'Details of Receipts' section of the NF-S18 statement to identify the fluid received for injection or disposal. The list of recognized fluids are listed below.

Code	Fluid	Units	Code	Fluid	Units
02	gas	10 <sup>3</sup> m <sup>3</sup>	50	anhydrous ammonia	m <sup>3</sup>
03	oil	m <sup>3</sup>	52	naptha	m <sup>3</sup>
06	water	m <sup>3</sup>	53	propane*	m <sup>3</sup>
08	waste/cuttings	m <sup>3</sup>	54	butanes*	m <sup>3</sup>
09	solvent	10 <sup>3</sup> m <sup>3</sup>	55	ethane*	m <sup>3</sup>
13	carbon dioxide	10 <sup>3</sup> m <sup>3</sup>	56	ethane plus*	m <sup>3</sup>
14	polymer	m <sup>3</sup>	57	pentanes plus*	m <sup>3</sup>
15	nitrogen	10 <sup>3</sup> m <sup>3</sup>	58	diesel oil	m <sup>3</sup>
16	LPG*	m <sup>3</sup>	63	ammonium nitrate	m <sup>3</sup>
18	condensate*	m <sup>3</sup>	70	xylene	m <sup>3</sup>
19	oxygen	10 <sup>3</sup> m <sup>3</sup>			

\* convert to gas equivalent volumes (10<sup>3</sup>m<sup>3</sup>).

**Injection/Disposal Fluid:**

'Injection/Disposal Fluid' is used in association with the 'Details of Injection/Disposal' section of the NF-S18 statement to identify the fluid injected or disposed of. The list of recognized fluids are listed below.

Code	Fluid	Units	Code	Fluid	Units
02	gas	10 <sup>3</sup> m <sup>3</sup>	50	anhydrous ammonia	m <sup>3</sup>
03	oil	m <sup>3</sup>	52	naptha	m <sup>3</sup>
06	water	m <sup>3</sup>	58	diesel oil	m <sup>3</sup>
08	waste/cuttings	m <sup>3</sup>	59	alkaline water	m <sup>3</sup>
09	solvent*	10 <sup>3</sup> m <sup>3</sup>	60	miscellar	m <sup>3</sup>
10	steam**	m <sup>3</sup>	63	ammonium nitrate	m <sup>3</sup>
11	air	10 <sup>3</sup> m <sup>3</sup>	70	xylene	m <sup>3</sup>
13	carbon dioxide	10 <sup>3</sup> m <sup>3</sup>			
14	polymer	m <sup>3</sup>			
15	nitrogen	10 <sup>3</sup> m <sup>3</sup>			
19	oxygen	10 <sup>3</sup> m <sup>3</sup>			

\* includes LPG, condensate, propane, butanes, ethane, ethane plus, and pentanes plus which are converted to a gas equivalent volume and summed as solvent.

\*\* cold water equivalent volume.

**Schedule (e) - Fluid Codes (cont'd)**

**Delivery Fluid:**

'Delivery Fluid' is used in association with the 'Details of Other Deliveries' section of the NF-S18 statement to identify the fluid delivered to other installations. The list of recognized fluids are listed below.

Code	Fluid	Units	Code	Fluid	Units
02	gas	10 <sup>3</sup> m <sup>3</sup>	50	anhydrous ammonia	m <sup>3</sup>
03	oil	m <sup>3</sup>	52	naphtha	m <sup>3</sup>
06	water	m <sup>3</sup>	58	diesel oil	m <sup>3</sup>
13	carbon dioxide	10 <sup>3</sup> m <sup>3</sup>	61	skim oil	m <sup>3</sup>
15	nitrogen	10 <sup>3</sup> m <sup>3</sup>	62	skim emulsion	m <sup>3</sup>
19	oxygen	10 <sup>3</sup> m <sup>3</sup>	63	ammonium nitrate	m <sup>3</sup>
			70	xylene	m <sup>3</sup>

**Summary Fluid:**

'Summary Fluid' is used in association with the 'Installation Summary' section of the NF-S18 statement to summarize the fluids received at the injection/disposal facility during the month. The list of recognized fluids are listed below.

Code	Fluid	Units	Code	Fluid	Units
02	gas	10 <sup>3</sup> m <sup>3</sup>	50	anhydrous ammonia	m <sup>3</sup>
03	oil	m <sup>3</sup>	52	naphtha	m <sup>3</sup>
06	water	m <sup>3</sup>	58	diesel oil	m <sup>3</sup>
08	waste/cuttings	m <sup>3</sup>	61	skim oil	m <sup>3</sup>
09	solvent*	10 <sup>3</sup> m <sup>3</sup>	62	skim emulsion	m <sup>3</sup>
13	carbon dioxide	10 <sup>3</sup> m <sup>3</sup>	63	ammonium nitrate	m <sup>3</sup>
14	polymer	m <sup>3</sup>	70	xylene	m <sup>3</sup>
15	nitrogen	10 <sup>3</sup> m <sup>3</sup>			
19	oxygen	10 <sup>3</sup> m <sup>3</sup>			

\* includes LPG, condensate, propane, butanes, ethane, ethane plus, and pentanes plus which are converted to a gas equivalent volume and summed as solvent.