PETRINEX
CANADA'S PETROLEUM INFORMATION NETWORK

TIP

Gas Meter Station Infrastructure and Reporting

Jurisdiction	Release/Revision Date	Location of Change in this Document	Comment
AB, SK, BC, MB	May 12, 2025		Initial Release

Audience: Gas Pipeline, Meter Station and Common Stream (CSO) operators

Purpose:
To remind Petrinex users on the meter station infrastructure elements and how volumetric data is reported at the various meter station facilities, including the additional volumetric data elements (ISC) required for AB royalty reporting obligations.

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METER STATION INFRASTRUCTURE

Petrinex has several gas meter station subtypes available for reporting of all gas entering or leaving a gas pipeline via a meter station.

The following is a listing of the available pipeline (PL) and meter station (MS) subtypes.

Pipeline Subtypes

Subtype	Description
204	Gas Transporter
206	Gas Distributor
209	CER – National Energy Board

Meter Station Subtypes

Subtype	Description
631	Field Receipt
632	Interconnect Receipt
633	Interconnect Disposition
634	Interconnect Non Reconciled
635	Petrinex Summary Non Reporting
636	Non Reporting
637	CER Regulated Field Receipt
638	CER Regulated Interconnect Receipt
639	CER Regulated Interconnect Disposition
640	Interconnect PL to PL Disposition

At each meter station there are potentially 3 operators involved in reporting, including the:

- PL operator — Pipeline operator
- MS operator — Meter station operator (same as the PL operator)
- CSO — Common stream operator (upstream facility operator)

Meter station **Auto Population/Autocreation** behaviour is different from most other facilities in Petrinex in which an entry (e.g. REC) creates the corresponding opposite entry at the other facility (e.g. DISP), known as the “from/to” facility.

In the example of a PL/MS operator reporting a receipt or disposition from/to a meter station, the resulting entry at the pipeline and corresponding entry at the meter station depends on the meter station sub-type and the auto-populate indicator:.

- ***If the auto population is set to Yes***
  - The auto populate facility link will be identified
  - A corresponding entry will be auto populated at that facility.
- ***If the auto population is set to No***
  - The CSO is responsible for entering the data to balance the meter station.

Meter Station Subtype Definitions:

Subtype 631 – Field Receipt Meter Station
This meter station subtype handles field receipts from producing/upstream facilities. The PL operator reports the total received from the MS. This MS subtype has the auto-population functionality.

Subtype 632 – Interconnect Receipt Meter Station
This meter station subtype handles a receipt of gas from the PL. The PL operator reports the total received by the MS. The MS then delivers the gas to upstream facilities. This MS subtype has the auto-population functionality.

Subtype 633 – Interconnect Disposition Meter Station
This meter station subtype receives gas from a pipeline. The CSO reports a disposition to one or more upstream facility(s) and the total receipt from the pipeline is auto populated. The PL operator does no reporting at this subtype of MS.

Subtype 635 – Petrinex Summary Non Reporting Meter Station
No reporting is done for this facility,

Subtype 636 – Non Reporting
This meter station subtype is a non-reporting meter station, and thus no reporting is done for this facility.

Canadian Energy Regulator (CER) regulated meter stations may elect to report volumetrics within Petrinex, by checking "*N" on* the non reporting indicator on the facility infrastructure record, or they may elect to not report volumetrics within Petrinex by checking *"Y"* on the non reporting indicator on the facility infrastructure facility record.

If the CER regulated meter station **is non reporting**, then the upstream facility operator (CSO) must report the disposition or receipt like the CSO's responsibility at the other MS subtypes.

Subtype 637 CER Regulated Field Receipt if reporting same rules as 631
Subtype 638 CER Regulated Interconnect Receipt if reporting same rules as 632
Subtype 639 CER Interconnect Disposition if reporting same rules as 633
Subtype 640 Interconnect PL to PL Disposition Meter station is used to report when gas is leaving one PL and entering another PL. This meter station will always have the auto-population indicator set to "Yes" with an identified auto-populated PL.

IMPORTANT: Communication between the meter station/pipeline operator is critical to ensure that the facilities are set up correctly.

The MS/PL using the Request Facility ID process sets up the meter station and can change only the infrastructure data shown in *red Italics* below.

1. Facility ID – issued by Petrinex upon setup
2. *Facility Name*
3. *Facility Start date*
4. *Facility Sub Type*
5. *Facility Location*
6. *Meter Station Start Date*
7. Experimental Confidential (default = No)
8. Participation Level (default = Non)
9. Pipeline split deadline (default = Second deadline)
10. *Meter Station - Pipeline Link*
11. *Common Stream Operator (CSO)*
12. *Auto populate Flow Through (Y/N)*
    - *If yes, include the Meter Station - Auto populate facility link*
13. Tier data (default as provided by AEPR)
14. Operational Status
15. Operator (default = PL operator)

The CSO cannot change any infrastructure meter station infrastructure data and is only able to submit and/or change volumetric data when the auto populate flow through is set to "N".

VOLUMETRIC REPORTING

Meter stations that have volumes moving through are required to report monthly in Petrinex in all jurisdictions. The general behaviour of the meter station subtypes, and respective reporting is similar in all jurisdictions, but each will have specific royalty related reporting rules.

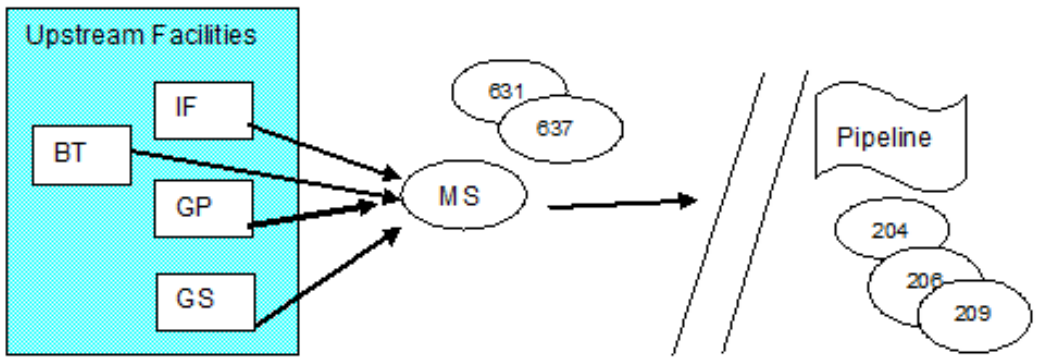
At a single meter station there are potentially 3 operators involved in reporting:

- **PL operator** **Pipeline operator**
- **MS operator** **Meter Station Operator (same as the PL operator)**
- **CSO** **Common Stream Operator (upstream facility operator)**

The diagrams and information below depict the general behaviour of each MS subtype.

- The items highlighted in yellow are the submissions required.
- A change was made to Petrinex effective April 2025 regarding the PL operator entering CSO information – see the highlighted comments in the diagram descriptions.
- The reference to In-Stream Components (ISC) is specific to AB crown royalty requirements.

GAS ACTIVITY SUBMITTED AT 631 & 637 TYPE METER STATIONS



Meter Station Sub-type	Auto pop flow through	Upstream Facility	Meter Station (REC/DISP)		Downstream Facility	Comments
		GP,GS,etc	MS – REC	MS – DISP	PL (204/206/209)	
MS 631 & 637	N	Auto-create DISP with ISC	REC by MS with ISC			*Auto-create 1 transaction*
MS 631 & 637	N			DISP at MS with ISC	Auto-create REC – No ISC	*Auto-create 1 transaction*
MS 631 & 637	Y	Auto-create DISP with ISC	Auto-create REC with ISC	DISP at MS with ISC	Auto-create REC – No ISC	*Auto-create 3 transactions*
MS 631 & 637	Y		REC by MS with ISC			*Transaction not allowed*

Items highlighted in yellow are the submissions required as noted below:

1. Volumetric Reporting for MS with subtype 631 (Field Receipt Meter Station)

If the auto populate flow through = 'N'

- The CSO submits REC activity at MS with Volume, Energy and ISC.
  - CSO is restricted to only submitting REC activity.
  - Petrinex auto-creates DISP activity at upstream facility (the from/to facility), with Volume, Energy and ISC.
- PL operator submits DISP activity at MS with Volume, Energy and ISC.
  - Petrinex auto-creates REC activity at downstream facility (the from/to facility) with Volume and Energy, without ISC.
  - An edit will ensure that the submitted from/to facility is the pipeline linked to the meter station.
- The PL operator can enter the CSO activity as well as their own, however the PL operator must be identified as the CSO in the edit facility infrastructure screen.

If auto populate flow through = 'Y'

- PL operator submits DISP activity at MS with Volume, Energy and ISC
    - Petrinex auto-creates REC activity at downstream facility (the from/to facility) with Volume and Energy, but without ISC
    - An edit will ensure that the submitted from/to facility is the pipeline linked to the meter station
    - Petrinex auto-creates REC activity at MS from upstream facility (the auto populate facility) with Volume, Energy and ISC
    - Petrinex auto-creates DISP activity at upstream facility (the auto populate facility) with Volume, Energy and ISC
- PL operator may submit a SHUTIN activity at the meter station, if it is the only activity in the submission.
- Submission of a REC at the MS by the PL operator is invalid.
- Submission of any activity by the CSO is invalid.

2. Volumetric Reporting for MS with subtype 637 (CER Regulated Field Receipt Meter Station)

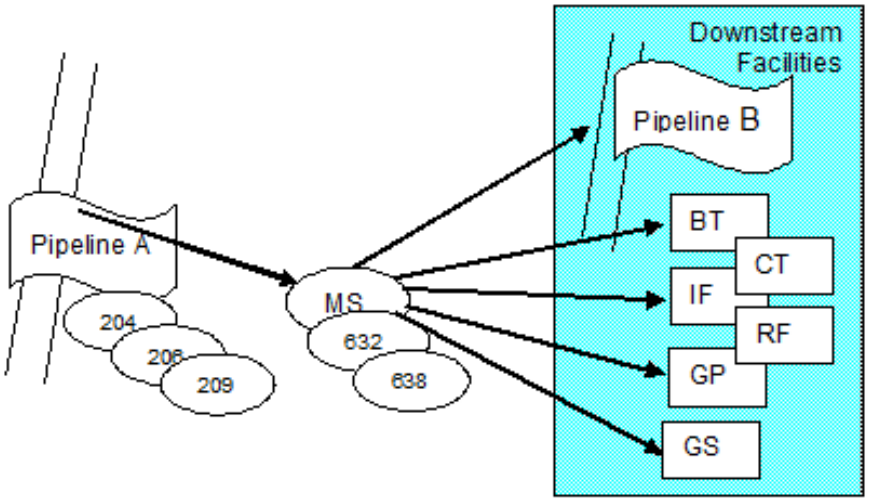
If the CER PL operator **elects not to report** volumetrics within Petrinex (non reporting indicator on facility record = Y)

- The upstream operator submits DISP activity to the CER linked MS with Volume, Energy and ISC.
- No other activities are auto-created.

If the CER PL operator **elects to report** volumetrics within Petrinex (non reporting indicator on facility record = N)

- The 631 MS volumetric reporting rules above will apply to this subtype 637.

Gas Activity entered at 632 & 638 type Meter Stations



Meter Station Sub-type	Auto pop flow through	Upstream Facility	Meter Station (REC/DISP)		Downstream Facility	Comments
		PL (204/206/209)	MS – REC	MS – DISP	BT/GP/GS/IF/CT/RF/PL	
MS 632 & 638	N	Auto-create DISP –No ISC	REC at MS with ISC			*Auto-create 1 transaction*
MS 632 & 638	N			DISP at MS with ISC	Auto-create REC – ISC created for IF only	*Auto-create 1 transaction*
MS 632 & 638	Y	Auto-create DISP – No ISC	REC at MS with ISC	Auto-create DISP with ISC	Auto-create REC – ISC created for IF only	*Auto-create 3 transactions*
MS 632 & 638	Y			DISP at MS with ISC		*Transaction not allowed*

Items highlighted in yellow are the submissions required as below:

1. **Volumetric Reporting for MS with subtype 632 (Interconnect Receipt Meter Station)**

If auto populate flow through = 'N'

- Pipeline A operator submits REC activity at MS with Volume, Energy and ISC.
    - Petrinex auto-creates DISP activity at upstream facility (the from/to facility) with Volume and Energy, without ISC.
    - An edit will ensure that the submitted from/to facility is the pipeline linked to the meter station

- CSO submits DISP activity at MS with Volume, Energy and ISC.
    - CSO is restricted to only submitting DISP activity.
    - Petrinex auto-creates REC activity at downstream facility (the from/to facility), with Volume and Energy.
    - If the downstream facility is an IF, Petrinex auto-creates ISC activity at downstream facility, otherwise no ISC activity is created at the downstream facility.
- The PL operator can enter the CSO activity as well as their own, however the PL operator must be identified as the CSO in the edit facility infrastructure screen.

If auto populate flow through = 'Y'

- Pipeline A operator submits REC activity at MS with Volume, Energy and ISC.
    - Petrinex auto-creates DISP activity at upstream facility (the from/to facility) with Volume and Energy, without ISC.
    - An edit will ensure that the submitted from/to facility is the pipeline linked to the meter station.
    - Petrinex auto-creates DISP activity at MS to downstream facility (the auto populate facility) with Volume, Energy and ISC.
    - Petrinex auto-creates REC activity at downstream facility (the auto populate facility) with Volume and Energy.
    - If the downstream facility is an IF, Petrinex auto-creates ISC activity at downstream facility, otherwise no ISC activity is created at the downstream facility.
- Pipeline A operator may submit a SHUTIN activity at the meter station, if it is the only activity in the submission.
- Submission of a DISP at the MS by the PL A operator is invalid.
- Submission of any activity by the CSO is invalid.

2. Volumetric Reporting for MS with subtype 638 (CER Regulated Interconnect Receipt Meter Station)

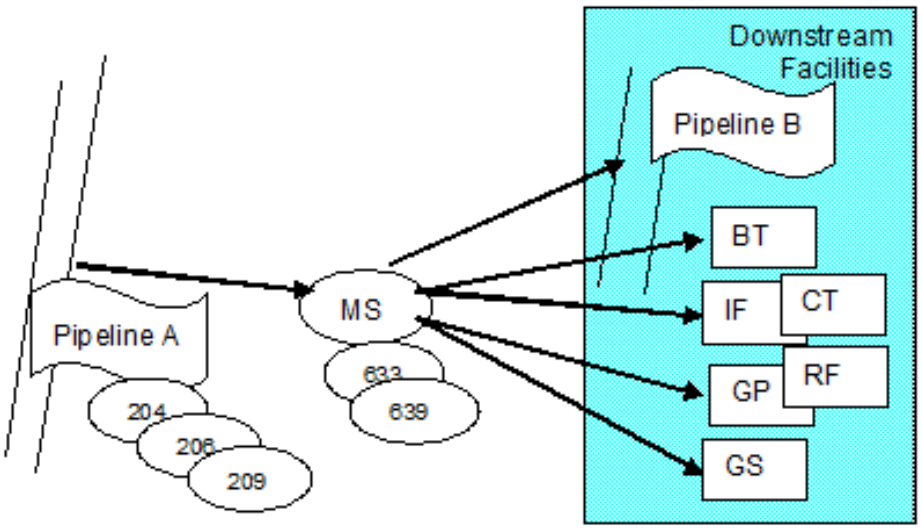
If the CER PL operator **elects not to report** volumetrics within Petrinex (non reporting indicator on facility record = Y)

- the downstream operator submits REC activity from the CER linked MS with Volume and Energy.
- If the downstream facility is an IF, then ISC activity must be submitted as well.
- No other activities are auto-created.

If the CER PL operator **elects to report** volumetrics within Petrinex (non reporting indicator on facility record = N)

- The 632 MS volumetric reporting rules above will apply.

Gas Activity entered at 633 & 639 type Meter Stations



Meter Station Sub-type	Auto pop flow through	Upstream Facility	Meter Station (REC/DISP)		Downstream Facility	Comments
		PL (204/206/209)	MS – REC	MS – DISP	BT/GP/GS/IF/CT/RF/PL	
MS 633 & 639	N			DISP at MS with ISC	Auto-create REC – ISC created for IF only	*Auto-create 1 transaction*
MS 633 & 639	N	Auto-create DISP –No ISC	REC at MS with ISC			*Auto-create 1 transaction*
MS 633 & 639	Y	Auto-create DISP – No ISC	Auto-create REC with ISC	DISP at MS with ISC	Auto-create REC – ISC created for IF only	*Auto-create 3 transactions*
MS 633 & 639	Y		REC at MS with ISC			*Transaction not allowed*

Items highlighted in yellow are the submissions required as below:

1. **Volumetric Reporting for MS with subtype 633 (Interconnect Disposition Meter Station)**

If auto populate flow through = 'N'

- CSO submits DISP activity at MS with Volume, Energy and ISC.
  - CSO is restricted to only submitting DISP activity.
  - Petrinex auto-creates REC activity at downstream facility (the from/to facility), with Volume and Energy.
  - If the downstream facility is an IF, Petrinex auto-creates ISC activity at downstream facility, otherwise no ISC activity is created at the downstream facility.

- Pipeline A operator submits REC activity at MS with Volume, Energy and ISC.
    - Petrinex auto-creates DISP activity at upstream facility (the from/to facility) with Volume and Energy, without ISC.
    - An edit will ensure that the submitted from/to facility is the pipeline linked to the meter station.
- The PL operator can enter the CSO activity as well as their own, however the PL operator must be identified as the CSO in the edit facility infrastructure screen.

If auto populate flow through = 'Y'

- Pipeline A operator, or the CSO, submits DISP activity at MS with Volume, Energy and ISC.
    - Petrinex auto-creates REC activity at downstream facility (the from/to facility) with Volume and Energy.
    - If the downstream facility is an IF, Petrinex auto-creates ISC activity at downstream facility, otherwise no ISC activity is created at the downstream facility,
    - An edit will ensure that the submitted from/to facility is the auto populate facility linked to the meter station.
    - Petrinex auto-creates REC activity at MS from upstream facility (the pipeline linked to the meter station) with Volume, Energy and ISC.
- Petrinex auto-creates DISP activity at upstream facility (the pipeline linked to the meter station) with Volume, Energy, but without ISC.
- Pipeline A operator may submit a SHUTIN activity at the meter station if it is the only activity in the submission.
- Submission of a REC at the MS by the Pipeline A operator, or CSO, is invalid.

2. Volumetric Reporting for MS with subtype 639 (CER Regulated Interconnect Disposition Meter Station)

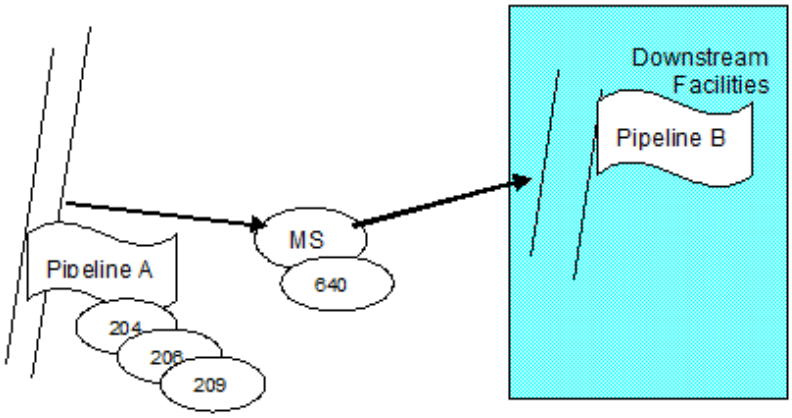
If the CER PL operator ***elects not to report*** volumetrics within Petrinex (non reporting indicator on facility record = Y)

- The downstream operator submits REC activity from the CER linked MS with Volume and Energy.
- If the downstream facility is an IF, then ISC activity must be submitted as well.
- No other activities are auto-created.

If the CER PL operator ***elects to report*** volumetrics within Petrinex (non reporting indicator on facility record = N) then

- The 633 MS volumetric reporting rules above will apply.

Gas Activity entered at 640 type Meter Stations



Meter Station Sub-type	Auto pop flow through	Upstream Facility	Meter Station (REC/DISP)		Downstream Facility	Comments
		FlowThrough PL	MS – REC	MS – DISP	Linked PL	
MS 640	N			DISP at MS with ISC		*Transaction not allowed*
MS 640	N		REC at MS with ISC			*Transaction not allowed*
MS 640	Y	Auto-create DISP – No ISC	Auto-create REC with ISC	DISP at MS with ISC	Auto-create REC – No ISC	*Auto-create 3 transactions*
MS 640	Y		REC at MS with ISC			*Transaction not allowed*

Items highlighted in yellow are the submissions required as below:

1. **Volumetric Reporting for MS with subtype 640 (Interconnect PL to PL Disposition Meter Station)**
    - The Pipeline B operator submits DISP activity at MS with Volume, Energy and ISC.
        - Petrinex auto-creates REC activity at downstream facility (the linked PL) with Volume and Energy, no ISC.
        - An edit will ensure that the submitted from/to facility is the PL linked to the meter station.
        - Petrinex auto-creates REC activity at MS from upstream facility (the flow through PL) with Volume, Energy and ISC.
        - Petrinex auto-creates DISP activity at upstream facility (the flow through PL) with Volume, Energy, without ISC.

- Pipeline B operator may submit a SHUTIN activity at the meter station if it is the only activity in the submission.
- Submission of a REC at the MS by the PL B operator is invalid.
- No CSO is permitted for a meter station subtype 640.
- The auto populate flow through indicator must always be “Y” at a meter station subtype 640.
- The auto populated flow through facility must be a PL other than the linked PL.
- There is no equivalent CER meter station for this subtype.

More information: Please contact the Petrinex Business Desk.

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