

# Appendix A

## Royalty Triggers and Reporting Rules for Royalty Assessment

## Royalty Triggers and Reporting Rules for Royalty Assessment

### 1. Introduction

The Alberta Department of Energy (the department) has agreed with, and has adopted, the Registry reporting requirements for royalty assessment. Using the Registry data provided by facility operators, the department assesses royalty at facilities for the owner of each product stream. Assessment is primarily based on what happens at a facility. Different royalty assessment methods are used depending on whether the previously unsold product stream is processed or unprocessed. *Refer to point 6.*

### 2. Purpose

The purpose of *Appendix A* is to outline the department royalty triggers and illustrate certain reporting concepts that are fundamental to accurate royalty assessment.

### 3. Intended Audience

*Appendix A* is structured to provide information at the detailed level, and is designed as a *practical guide* to aid in understanding how royalty will be triggered from Volumetric/SAF/OAF and RGA data and to clarify certain reporting requirements that are necessary for accurate royalty assessment. The intended audience is the production accounting level.

### 4. The Department Terms and Definitions

A review of the following terms and definitions is beneficial to understanding the material presented in *Appendix A*. These terms and definitions are used within the context of royalty assessment by the department and may not have universal application.

#### 4.1 Royalty Network

The royalty network is a collection of interconnected processing and gathering facilities that receive products either directly or indirectly from reservoirs. The network (for department royalty purpose) is deemed to end when the product is delivered to:

- Commercial transportation facilities such as meter stations, pipelines, railcars, and trucks;
- \*Field straddle plants (except in the case of unprocessed product where the network is deemed to end at the field straddle plant outlet gate, whether or not any processing of the product occurs);
- Mainline straddle plants;
- Fractionation plants;
- Injection facilities;
- Facilities outside the Province of Alberta (except non-Alberta facilities on the department approval list); *and*
- Refineries, terminals, treating plants.

\*Effective Jan. 1, 2006, all remaining field straddle plants were terminated. These facilities no longer have a specialized status and are considered normal operating gas plants. Effective with the termination Crown royalty is calculated at the plant gate, as with other in-net facilities.

## 4.2 Processing

Processing is the action of creating new product(s) from existing product(s) by:

- Extracting component gases and/or liquids from a product;
- Combining two or more products; *and*
- Altering the state in which a product exists (i.e., changing a product from a gaseous state to a liquid state).

Processing excludes the separation and/or recombination of product(s) produced at a well that is necessary for the purpose of an initial measurement and transportation.

## 4.3 Unsold Stream

A movement of product originating at a reservoir and moving through a network to the point where ownership of the product changes hands.

## 4.4 Unprocessed Stream

A movement of effluent recovered from a formation in any form (gas, liquid or solid). Effluent becomes an unprocessed stream for reporting after the first point of measurement.

## 4.5 Processed Stream

A processed stream originates at the first point where the product stream is processed after the initial wellhead separation/measurement point.

## 4.6 Purchased Stream

A movement of product originating at the point where ownership changed from one business associate (legal entity) to another. A stream can be purchased and sold several times within the network.

## 4.7 Volumetric Activity "Production"

An unsold, unprocessed product stream, composed of products recovered from a formation in gaseous or liquid form, which originates at the first point of measurement after the wellhead, and ends at the first processing point.

## 4.8 Product "Gas"

An unsold and processed product stream composed mainly of methane, which is left over after natural gas is processed (residue gas). Natural gas is processed in order to remove heavier components (natural gas liquids), hydrogen sulphide and/or other impurities from the gas. The residue is the portion of the original gas, which remains after processing.

#### 4.9 IN-NET Facility (within royalty network)

A facility location on the Volumetric/SAF/OAF that is within the royalty network. Province Code = AB, Type Code = BT/GS/GP. The GP referenced here is a conventional gas processing plant.

#### 4.10 OUT-NET Facility (outside of royalty network)

A facility location on the Volumetric/SAF/OAF that is outside the royalty network Province Code = AB, Type Code = MS/IF/RF/TM/PL/RR/TR/EG/ or a gas plant - (GP) which is a mainline or fractionation plant, or a non-Alberta facility location.

**Department (DOE) – Volumetric Royalty Trigger Summary Table**

Royalty Trigger Type	Registry Volumetric Reporting Facility	Registry Volumetric Activity	Registry Volumetric From/To Location	Product	SAF and OAF required?	Royalty Trigger Location	Royalty Trigger Action
Dispositions out of royalty network	IN-NET	DISP	OUT-NET	Gas	Yes	Reporting Facility	Crown Royalty charge
Dispositions out of royalty network with return fuel	IN-NET (facility is the associated return fuel/gas lift facility of the BT or GS that is receiving gas from an MS)	DISP	OUT-NET	Gas	Yes	Reporting Facility	Crown Royalty charge

Royalty Trigger Type	Registry Volumetric Reporting Facility	Registry Volumetric Activity	Registry Volumetric From/To Location	Product	SAF and OAF required?	Royalty Trigger Location	Royalty Trigger Action
	AB-BT or GS with an associated return fuel/gas lift facility	REC	AB-MS	Gas	Yes	Associated Return Fuel/Gas Lift Facility	<p>Crown Royalty reduction at associated return fuel/gas lift facility.</p> <p>If no associated return fuel facility is indicated, reduction will be at the associated gas lift facility.</p> <p>No reduction given if there is no crown royalty charge at the associated facility.</p> <p>No reduction given if there is no FUEL activity at the reporting facility.</p>
	AB-BT or GS with an associated return fuel/gas lift facility	FUEL	N/A	Gas	Optional	Associated Return Fuel/Gas Lift Facility	Validates the return fuel reduction at the associated return fuel/gas lift facility.
By-Products Processing	AB-GS or GP	PROC	N/A	Any except Gas	Yes	Reporting Facility	Crown Royalty Charge
Royalty Liable Lease Fuel	AB-BT, GS or GP	PURDISP	AB-BT or GS	Gas	Yes	Reporting Facility	Crown Royalty charge
Injection Credit	AB-IF	REC	Any	Any	Yes	Reporting Facility	<p>Injection Credit</p> <p>No injection credit is given if there is no INJ activity at the reporting facility.</p>

Royalty Trigger Type	Registry Volumetric Reporting Facility	Registry Volumetric Activity	Registry Volumetric From/To Location	Product	SAF and OAF required?	Royalty Trigger Location	Royalty Trigger Action
	AB-IF	DISP	Any	Any	Optional	Reporting Facility	Injection Credit reduction.  <i>Injection credit is net of deliveries from the injection facility.</i>
	AB-IF	INJ	N/A	Any	Optional	Reporting Facility	Validates the injection credit at the injection facility.

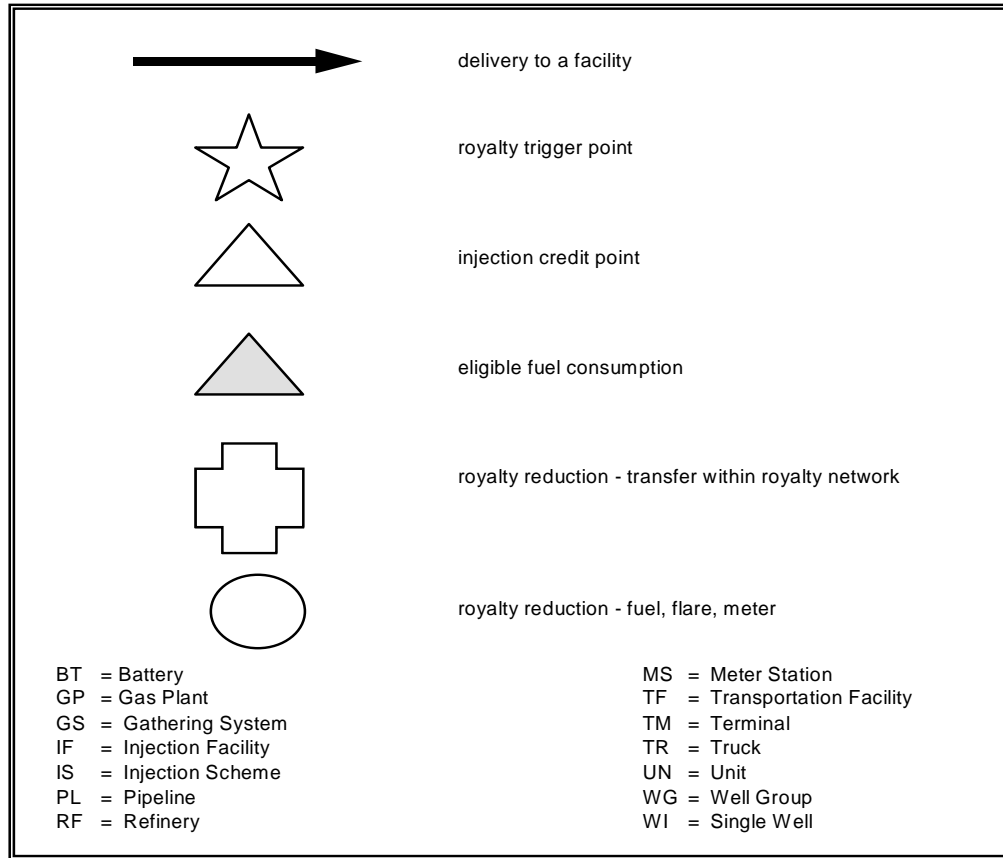
<b>AB</b> Alberta	<b>IN-NET</b> AB-BT, GS, GP, and Field Straddle Plants processing <i>native</i> gas,	<b>PROC</b> Process
<b>BT</b> Battery		<b>PURDISP</b> Purchased Disposition
<b>GP</b> Gas Plant	<b>OUT-NET</b> AB-Injection facilities, AB-Meter Stations/Pipelines	<b>REC</b> Receipt
<b>GS</b> Gas Gathering System	AB-Mainline Straddle Plants,	<b>DISP</b> Disposition
<b>IF</b> Injection Facility	AB-Field Straddle Plants processing <i>non-native</i> gas, AB-Commercial, Residential, Electrical Generation facilities, and Non AB facilities	<b>INJ</b> Injection

### Royalty Trigger Sub Types

The royalty trigger types are further divided where there are in-network gas sales involved as different crown royalty rules apply. In-network gas sales are reported on Raw Gas Allocation (RGA) submissions. See *RGA Reporting* for further information on RGA submissions. For clients who are receiving their Crown royalty details in User Defined Files (UDF) format, the royalty trigger descriptions in the UDF are indicated by royalty trigger sub types.

Royalty Trigger Type	Royalty Trigger Sub Type	Trigger Code
Dispositions to Out of Network	Disposition Out-of-Network	DISP
	Raw Gas Disposition (no processing)	RGAD
	Raw Gas Disposition with Processing only	RGADP
	Raw Gas Delivered to Injection	RGAIF
By-Products Processing	By-Product Processing	PROC
	Raw Gas Processing	RGAP
Royalty Liable Lease Fuel	Royalty Liable Lease Fuel	PURDSP
	Raw Gas Lease Fuel	RGAPUR
Injection Credit	Injection Credit	INJECT
	Injection Disposition	INJDSP
Disposition to Out of Network with Return Fuel	Disposition with Return Fuel	DISPRF
	Raw Gas Disposition with Return Fuel (no Processing)	RGADR
	Raw Gas Disposition with Processing & Return Fuel	RGDPR

## 5. Legends Used in This Section:



## 6. Royalty Triggers, Injection Credits, Other Royalty Reductions and Supporting Royalty Assessment Method Details

Royalty triggers are based on what happens at the facility. The method of assessment depends on whether the product stream is processed or unprocessed, and on what activity is happening at the facility where the royalty assessment takes place. The royalty assessment methods chosen are the result of joint endeavours between the department and the petroleum and gas industry. The following items identify the locations where the department royalty assessments are triggered when the described business events occur.

### 6.1 Royalty Assessment Methods for In-Net Facility Disposition to Out of Net Facility

Facility (excluding straddle plants) where previously unsold gas is:

- Delivered to mainline straddle plants, commercial transportation facilities, destinations such as meter stations, refineries, terminals, treating plants, or non-Alberta facility locations; *or*
- Delivered to injection facilities.

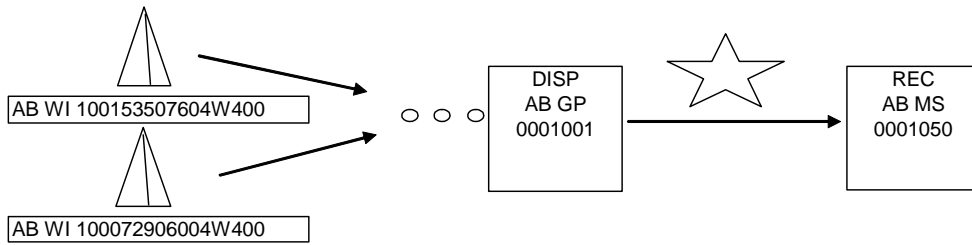
For previously unsold, *unprocessed* gas at a facility (excluding straddle and fractionation plants) where stream is *not processed*, stream royalty assessable volume equals:

Volume dispositions (transferred) to out of network facilities.
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Refer to *Appendix A* page 7 for Volumetric/ SAF/ OAF reporting detail.

The required facility reporting will change if the volumes are cascaded, there is return fuel, or a raw gas sale occurs upstream. Examples of Volumetric/ SAF/ OAF and RGA reporting are provided from page 9 to page 11 for these situations.

**Royalty Trigger Type (DISP): Dispositions to out of Network**



	*Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Client Volumes		
										Charge Facility	Vol	GJ
Volumetric	AB GP 0001001	DISP	GAS	AB MS 0001050	10,500.0	430,500	C1-IC	9240.000	334488.000			
							C2-IC	998.875	65068.747			
							C4-IC	261.125	30943.253			
							Total	10,500.0	430,500			
							Stream Id		SAF Factor			
SAF	AB GP 0001001	DISP	GAS	AB MS 0001050			AB WI 100153507604W400		0.55			
							AB WI 100072906004W400		0.45			
							Owner		OAF Factor			
OAF	AB GP 0001001	DISP	GAS	AB MS 0001050			AB WI 100153507604W400	XXX1	0.3	AB GP 0001001	1732.5	71033
								XXX2	0.7	AB GP 0001001	4042.5	165743
OAF	AB GP 0001001	DISP	GAS	AB MS 0001050			AB WI 100072906004W400	XXX3	1	AB GP 0001001	4725.0	193724
											10,500.0	430,500

**Notes:**



: Indicates Royalty Trigger Point

\*Reporting Facility - Any in-network facility - BT, GS, or GP and field straddle processing native gas

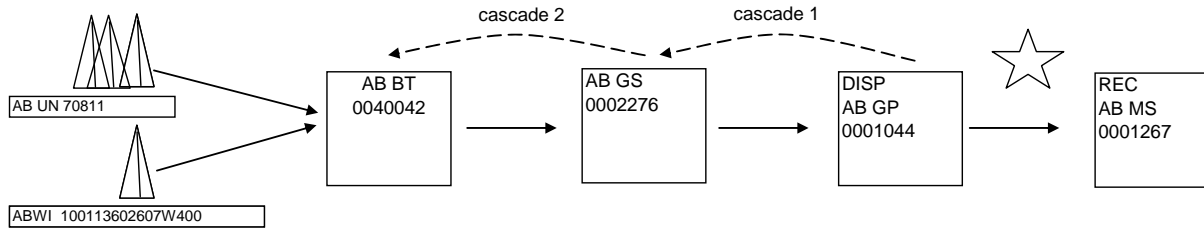
From/To Facility - Out of network gas facilities - MS, IF, PL, Mainline Straddle or Field Straddle Plant

- Oil type facilities - CT, RF, TM

- Any miscellaneous code - CO, EG, IN, RE, R1, R2, MC, OT, RM, SS, WC

- Any ex-Alberta location - SK, BC, MT etc.

**Royalty Trigger Type (DISP) - Disposition to Out of Network with 2 Level Cascade**



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Client Volumes			
Volumetric	AB GP 0001044	DISP	GAS	AB MS 0001267	10,475.0	429,475	C1-IC	8765.000	319922.500	Charge Facility	Vol	GJ	
							C2-IC	1710.000	109552.500				
							Total	10,475.0	429,475				
							Stream Id		SAF Factor	Cascade Fac			
SAF	AB GP 0001044	DISP	GAS	AB MS 0001267			AB GS 0002276		1				
SAF	AB GS 0002276	DISP	GAS	AB MS 0001267			AB BT 0040042		1	AB GP 0001044			
SAF	AB BT 0040042	DISP	GAS	AB MS 0001267			AB UN 70811		0.55	AB GS 0002276			
							AB WI 100113602607W400		0.45				
							Owner	OAF Factor					
OAF	AB BT 0040042	DISP	GAS	AB MS 0001267			AB UN 70811	XXX1	0.3	AB GS 0002276	AB GP 0001044	1728.375	70863
								XXX2	0.7	AB GS 0002276	AB GP 0001044	4032.875	165348
OAF	AB BT 0040042	DISP	GAS	AB MS 0001267			AB WI 100113602607W400	XXX3	1	AB GS 0002276	AB GP 0001044	4713.750	193264
												10,475.0	429,475

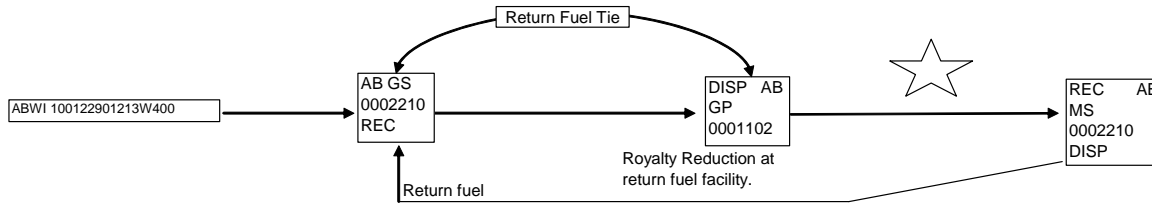
Notes:



: Indicates Royalty Trigger Point

- An OAF submission is required by the facility that assigns the cascaded volumes to the production entity on the SAF. The OAF cascade facility must match the final SAF cascade facility.
- The royalty charge is at the facility where the volumetric trigger information is filed.
- SAF Reporting is required at each facility in response to a cascade

**Royalty Trigger Type - Disposition to Out of Network with Return Fuel**



**Crown Royalty Charge**

	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Gross Vol	Gross Heat	Charge Facility
Volumetric	AB GP 0001102	DISP	GAS	AB MS 0002210	900.0	36,900	C1-IC	859.189	31961.831			
							C4-IC	40.811	4938.131			
							Total	900.0	36,900			
							Stream Id		SAF Factor			
SAF	AB GP 0001102	DISP	GAS	AB MS 0002210			AB WI 100122901213W400		1			
							Owner	OAF Factor				
OAF	AB GP 0001102	DISP	GAS	AB MS 0002210			AB WI 100122901213W400	XXX1	0.3	270.0	11070	AB GP 0001102
								XXX2	0.7	630.0	25830	AB GP 0001102
										900.0	36,900	

**Return Fuel Credit**

	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol		Royalty Reduction Vol	Royalty Reduction Heat	Point of Determination Facility
Volumetric	AB GS 0002210	REC	GAS	AB MS 0002210	30.0	1,230						
	AB GS 0002210	FUEL	GAS	AB GS 0002210	30.0							
							Stream Id		SAF Factor			
SAF	AB GS 0002210	REC	GAS	AB MS 0002210			AB WI 100122901213W400		1			
							Owner	OAF Factor				
OAF	AB GS 0002210	REC	GAS	AB MS 0002210			AB WI 100122901213W400	XXX1	0.3	9.0	369	AB GP 0001102
								XXX2	0.7	21.0	861	AB GP 0001102
										30.0	1,230	

**Note:**

A return fuel credit occurs when residue gas is sent back into the royalty network from a meter station to a battery or gathering system that has a 'Return Fuel' facility tie with the crown trigger facility. Upon filing the activity 'REC' and 'FUEL' for the product gas on the volumetric, a SAF/OAF is filed for the activity 'REC'. This SAF/OAF is then matched to the SAF/OAF where crown royalty was triggered and credit is then applied to crown charge.



: Indicates Royalty Trigger Point

Return Fuel royalty reduction only applies to product GAS

Return Fuel royalty reduction only applies to gas returned to a BT or GS, not a GP

The return fuel facility must report both the FUEL activity and the REC from a meter station

The Return Fuel facility must be tied to the facility that has Crown royalty charges

**Trigger Type:**

DISPRF Trigger Type Disposition with Return Fuel

RGADR Trigger Type Raw Gas Disposition with Return Fuel (no processing)

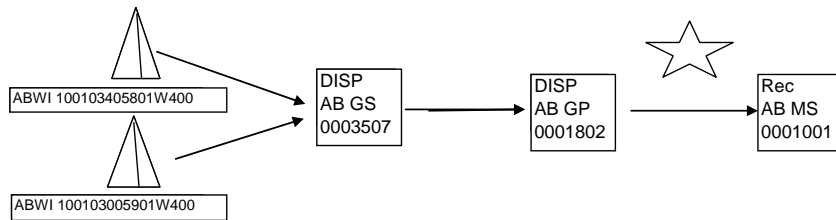
RGDPR Trigger Type Disposition with Return Fuel



**Royalty Assessment Method for Facility Gas Disposition to Field Straddle Plant\***

Occurring where previously unsold, processed gas is delivered to a field straddle plant. Royalty assessment is based on whether the gas stream is processed or unprocessed upon receipt at facility, and on what is happening to the stream at the facility prior to delivery to the field straddle plant. By product streams resulting from processed by-products are not subject to royalty assessment because royalties would have been charged when the by-products were extracted from the gas stream.

**Royalty Trigger Type (DISP) - Straddle Plant Processing Native Gas**



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Client Volumes		
Volumetric	AB GP 0001802	DISP	GAS	AB MS 0001001	12,345.0	506,145	C1-IC	10786.963	393724.150	Charge Fac	Vol	GJ
							C2-IC	1190.115	77119.452			
							C3-IC	339.000	31018.452			
							C5-IC	28.922	4283.348			
							Total	12,345.0	506,145			
							Stream Id		SAF Factor	Cascade Facility		
SAF	AB GP 0001802	DISP	GAS	AB MS 0001001			AB GS 0003507		1			
SAF	AB GS 0003507	DISP	GAS	AB MS 0001001			AB WI 100103405801W400		0.55	AB GP 0001802		
							AB WI 100103005901W400		0.45	AB GP 0001802		
							Owner	OAF Factor				
OAF	AB GS 0003507	DISP	GAS	AB MS 0001001			AB WI 100103405801W400	XXX1	0.3	AB GP 0001802	AB GP 0001802	2036.9 83514
								XXX2	0.7	AB GP 0001802	AB GP 0001802	4752.8 194866
OAF	AB GS 0003507	DISP	GAS	AB MS 0001001			AB WI 100103005901W400	XXX3	1	AB GP 0001802	AB GP 0001802	5555.3 227765
												12,345.0 506,145

Notes:



: Indicates Royalty Trigger Point

For a unique straddle plant approved for processing native gas, the royalty is triggered at the plant gate of the field straddle plant determined from the stream level reporting in the SAF detail.

\*Effective Jan. 1, 2006, all remaining field straddle plants were terminated. These facilities no longer have a specialized status and are considered normal operating gas plants. Effective with the termination Crown royalty is calculated at the plant gate, as with other in-net facilities.



OAF Reporting for by-product processing (Continued from A-12).

	Reporting Facility	Activity	Product	From/To Facility	Vol	Stream Id	Owner	OAF Factor	Client Volumes								
									C2-SP	C2-MX	C3-SP	C3-MX	C4-SP	C4-MX	C5-SP	C5-MX	Sulphur
OAF	AB GP 0001311	PROC	C2-SP	blank		AB WI 100111907705W400	XXX1	0.3	16.5	0	0	7.425	8.25	4.125	66	57.75	82.5
			C2-MX	blank			XXX2	0.7	38.5	0	0	17.325	19.25	9.625	154	134.75	192.5
			C3-SP	blank					55	0	0	24.75	27.5	13.75	220	192.5	275
			C3-MX	blank													
			C4-SP	blank													
			C4-MX	blank													
			C5-SP	blank													
			C5-MX	blank													
			*SBASE	blank													
			*SBLOC	blank													
			*SMOLT	blank													
							Owner	OAF Factor	C2-SP	C2-MX	C3-SP	C3-MX	C4-SP	C4-MX	C5-SP	C5-MX	Sulphur
OAF	AB GP 0001311	PROC	C2-SP	blank		AB WI 100112002211W400	XXX3	1	45	0	0	20.25	22.5	11.25	180	157.5	225
			C2-MX	blank													
			C3-SP	blank													
			C3-MX	blank													
			C4-SP	blank													
			C4-MX	blank													
			C5-SP	blank													
			C5-MX	blank													
			*SBASE	blank													
			*SBLOC	blank													
			*SMOLT	blank													

Note:

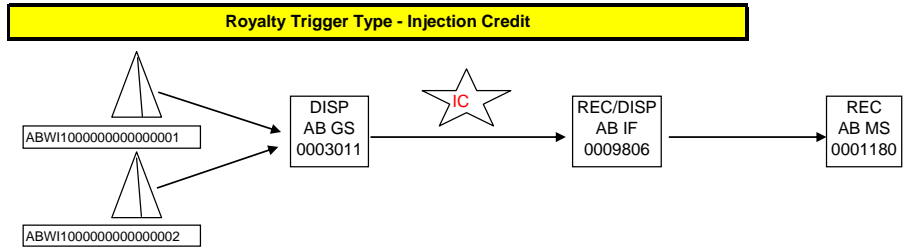
\* For royalty purposes, SPRILL, SMOLT, SBASE, SBLOC, SFORM, SLATE are rolled up to SUL.

**Royalty Assessment Method for Injection Credits**

Facility where product received will be:

- Injected into a production-motivated scheme (including cycling)
- Consumed during the process of injecting product(s) into a
- Excludes approved storage schemes.

Injection credit volume equal receipts minus dispositions.



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	Client Volumes					
								ISC Vol	Heat	Charge Facility	Vol	GJ	
Volumetric	AB IF 0009806	*REC	GAS	AB GS 0003011	555.0	22,755	C1-IC	500.850	18831.960				
							C2-IC	39.150	2544.750				
							C3-IC	15.000	1378.500				
							Total	555.0	22,755				
	AB IF 0009806	DISP	GAS	AB MS 0001180	73.0	2,993	C1-IC	65.878	2476.997				
							C2-IC	5.149	334.715				
							C3-IC	1.973	181.316				
							Total	73.0	2,993				
	AB IF 0009806	*INJ	GAS	ABWI 100111907705W400	482.0								
							Stream Id		SAF Factor				
SAF	AB IF 0009806	REC	GAS	AB GS 0003011			AB IS 10044		0.55				
							AB IS 10071		0.45				
							Owner	OAF Factor					
OAF	AB IF 0009806	REC	GAS	AB GS 0003011			AB IS 10044	XXX1	0.3	AB IF 0009806	79.5	3261	
								XXX2	0.7	AB IF 0009806	185.6	7608	
OAF	AB IF 0009806	REC	GAS	AB GS 0003011			AB IS 10071	XXX3	1	AB IF 0009806	216.9	8893	
											482.0	19,762	

Notes

: Indicates Royalty Trigger Point

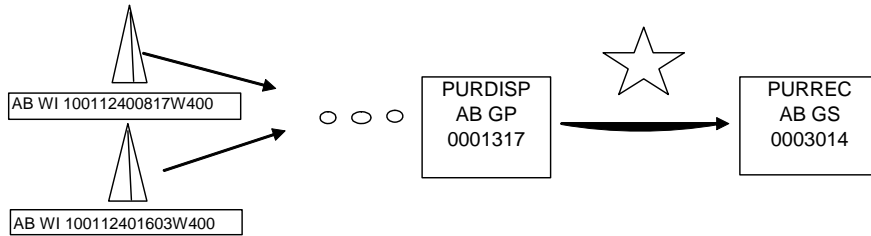
\* Activities 'INJ' and 'REC' are required for credit  
 Injection Credit is calculated by taking the receipts less disposition (I.e. 555-73=482)  
 Trigger Type:  
 INJECT - injection with no DISP activity  
 INJDSP - injection with DISP activity (as in above example)

**NOTE:** VOLUMES RECEIVED FOR INJECTION PURPOSES ARE VOLUMES RECEIVED AT THE INJECTION FACILITY, WHICH ARE EITHER INJECTED OR CONSUMED DURING THE PROCESS OF INJECTION GAS AND GAS PRODUCTS INTO A PRODUCTION-MOTIVATED INJECTION SCHEME. THIS EXCLUDES ANY SUBSEQUENT DELIVERY OF VOLUMES FROM THE INJECTION FACILITY. INJECTION LINE IS REQUIRED REPORTING.

**Royalty Assessment Method for Royalty Liabile Lease Fuel:**

If the product stream is not reprocessed at the facility where it is returned for fuel consumption, a royalty liability will be assessed.

**Royalty Trigger Type - Royalty Liabile Lease Fuel**



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Client Volumes		
										Charge Facility	Vol	GJ
Volumetric	AB GP 0001317	PURDISP	GAS	AB GS 0003014	330.0	13,530						
							Stream Id		SAF Factor			
SAF	AB GP 0001317	PURDISP	GAS	AB GS 0003014			AB WI 100112400817W400		0.55			
							AB WI 100112401603W400		0.45			
								Owner	OAF Factor			
OAF	AB GP 0001317	PURDISP	GAS	AB GS 0003014			AB WI 100112400817W400	XXX1	0.3	AB GP 0001317	54.45	2232
								XXX2	0.7	AB GP 0001317	127.05	5209
OAF	AB GP 0001317	PURDISP	GAS	AB GS 0003014			AB WI 100112401603W400	XXX2	1	AB GP 0001317	148.50	6089
											330.0	13,530

Notes



: Indicates Royalty Trigger Point

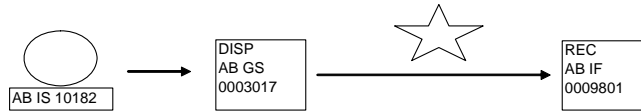
Royalty Liabile lease fuel is gas that is sold to a BT or GS, from another BT, GS or GP, for use as lease fuel. PURDISP activity only applies to Product gas.

Trigger Type:

PURDISP : Trigger Type indicates Purchased disposition for lease fuel

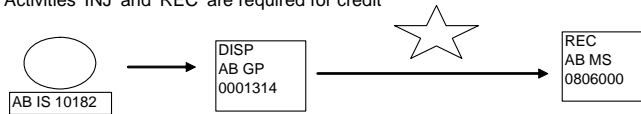
RGAPUR : Trigger Type indicates Raw gas purchased for lease fuel

**Enhance Oil Recovery (EOR) - Unit Operating Cost Recapture**



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Point of Determination Facility	Charge Type	Client Volumes	
												Vol	GJ
Volumetric	AB IF 0009801	*REC	GAS	AB GS 0003077	100.0	4,100	C1-IC	87.410	3269.134				
							C2-IC	12.590	830.940				
							Total	100.0	4,100				
	AB IF 0009801	*INJ	GAS	ABWI 100111907705W400	100.0								
SAF	AB IF 0009801	REC	GAS	AB GS 0003077			Stream Id		SAF Factor				
							AB IS 10182		1.00				
OAF	AB IF 0009801	REC	GAS	AB GS 0003077			Owner		OAF Factor				
							AB IS 10182	XXX1	0.3	AB IF 0009801	IC	30.0	1230
								XXX2	0.7	AB IF 0009801	IC	70.0	2870
												100.0	4,100

\* Activities 'INJ' and 'REC' are required for credit



	Reporting Facility	Activity	Product	From/To Facility	Vol	GJ	ISC Breakdown	ISC Vol	Heat	Point of Determination Facility	Charge Type	Client Volumes	
												Vol	GJ
Volumetric	AB GP 0001314	DISP	GAS	AB MS 0806000	120.0	4,920	C1-IC	104.892	3922.961				
							C2-IC	15.108	997.128				
							Total	120.0	4920				
							Stream Id		SAF Factor				
SAF	AB GP 0001314	DISP	GAS	AB MS 0806000			AB IS 10182		1.00				
							Owner		OAF Factor				
OAF	AB GP 0001314	DISP	GAS	AB MS 0806000			AB IS 10182	XXX1	0.3	AB GP 0001314	CR	36.0	1476
								XXX2	0.7	AB GP 0001314	CR	84.0	3444
												120.0	4,920

Stream Id	Owner	Point of Determination	Charge Type	UOCR Recapture Volumes	
AB IS 10182	XXX1	AB IF 0009801	EOR	30.0	1230.02
	XXX2	AB IF 0009801	EOR	70.0	2870.0518
				100.0	4,100



: Indicates Royalty Trigger Point

Where gas and gas products are injected into an EOR scheme, approved under the Enhanced Recovery of Oil Royalty Reduction Regulation, the Crown will recover operating costs previously deducted from Crown royalty. The Crown share of the operating costs to be recovered will be calculated on the lesser of the royalty client's proprietary volumes produced versus those injected into the same EOR scheme in the same month.