

# PIDX STANDARD

## EXCHANGE RECON DATA FILE

### Version 3.1

This file is organized as follows:

#### RECON RECORD FORMATS

- Type 0 (Contract record)
- Type 1 (Base Product & Balance record)
- Type 2 (Shipping Detail or transaction record)
- Type 3 (Adjustment record)

Notes and examples to clarify record format issues.

The intent of this new version 3.1 is that companies can continue to receive version 2 data. Also, companies who have not yet converted to the version 3.1 format, can receive version 3.1 files and use only the data from the columns supported by the version 2 standard.

Should you have any questions regarding this RECON Data File PIDX Standard, contact the PIDX Downstream eBusiness SIG's (Specific Interest Group) Fuel Settlement Work Group lead (currently - Ben Feuz - [ben.feuz@shell.com](mailto:ben.feuz@shell.com) ).

Date Adopted by the PIDX Downstream eBusiness SIG's (Specific Interest Group): Pending

**The changes made in version 3.1** (from version 3.0) are the addition of 2 digits and a decimal point to the exchange fees fields (Rate 1 through Rate 7). This changes the decimal point from an implied decimal point to a fixed decimal point (only for Rate 1 through Rate 7). These changes were made to the exchange fee rate fields (Rate 1 through Rate 7) located in the Type 2 record and starting in column 113 and beyond. These changes were necessary because some companies recently experienced exchange fees greater than \$1.00. The original "RECON" standard assumed that all exchange fees would be under \$1.00.

## RECON RECORD FORMATS

### EXCHANGE CONTRACT - TYPE 0

Col	Length	Name	Description																								
1	1	Record Type	A numeric code used to identify and separate different RECON formats. (0 for Type 0 Records)																								
2-3	2	Company Code	An alpha-numeric field used to identify the exchange company																								
4-17	14	Sending Co. Contract	An alpha-numeric field used to identify the contract number used by the sending company.																								
18-31	14	Exchange Partner Co. Contract	An alpha-numeric field used to identify the contract number used by the exchange company.																								
32-35	4	Business Month & Year	A numeric field in the form MMYY. This field identifies the business period for the detail transmitted.																								
36-40	5	Record Count	A numeric field which contains a hash total of the items sent under this contract. It must include this record and all following Type 1 and 2 records.																								
41	1	Unites of Measure	An alpha-numeric field which will indicate the reported units of measure and the implied decimal for volumes under this contract. <table border="0" style="margin-left: 20px;"> <thead> <tr> <th><u>Code</u></th> <th><u>Measure</u></th> <th><u>Implied Decimal</u></th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Barrels</td> <td>xxxxxxxx.xx</td> </tr> <tr> <td>G</td> <td>Gross Gallons</td> <td>none</td> </tr> <tr> <td>L</td> <td>Gross Liters</td> <td>none</td> </tr> <tr> <td>M</td> <td>Net Liters</td> <td>none</td> </tr> <tr> <td>N</td> <td>Net Gallons</td> <td>none</td> </tr> <tr> <td>P</td> <td>Pounds</td> <td>none</td> </tr> <tr> <td>T</td> <td>Tons</td> <td>xxxxxxxx.xx</td> </tr> </tbody> </table>	<u>Code</u>	<u>Measure</u>	<u>Implied Decimal</u>	B	Barrels	xxxxxxxx.xx	G	Gross Gallons	none	L	Gross Liters	none	M	Net Liters	none	N	Net Gallons	none	P	Pounds	none	T	Tons	xxxxxxxx.xx
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<b>42-43</b>	<b>2</b>	<b><i>Senders Company Code</i></b>	<b><i>An alpha-numeric field used to identify the sender's company. (Optional)</i></b>																								
44-80	37	Blank	Reserved for future use																								
80		Total Record Length																									

### Base Product - Type 1

Col	Length	Name	Description
1	1	Record Type	A numeric code used to identify and separate different RECON formats. (1 for Type 1 Records)
2-3	2	Company Code	An alpha-numeric field used to identify the exchange company.
4-6	3	Base Product	An alpha-numeric field used to identify a base product for the exchange agreement.
7-16	10	Opening Balance	A numeric un-signed field represents the opening balance of this base product for this contract. There is not an implied decimal.
17	1	Opening Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative balance and be left blank for positive balances.
18-27	10	Closing Balance	A numeric un-signed field represents the closing balance of this base product for this contract. There is not an implied decimal.
28	1	Closing Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative balance and be left blank for positive balances.
<b>29-38</b>	<b>10</b>	<b><i>Senders proprietary product code.</i></b>	<b><i>An alpha-numeric field which contains the senders proprietary base product code. (Optional)</i></b>
39-80	42	Blank	Reserved for future use.
80		Total Record Length	

## Shipping Detail - Type 2

Col	Length	Name	Description
1	1	Record Type	A numeric code used to identify and separate different RECON formats. (2 for Type 2 Records)
2-3	2	Company Code	An alpha-numeric field used to identify the exchange company.
4-9	6	SPLC	A numeric field used to identify the physical location of the terminal from which the product was withdrawn. These Standard Point Location Codes are maintained and distributed by the National Motor Freight Traffic Association as Continental Directory NMF102.
10-12	3	Blank	Reserved for future use.
13-21	9	Ticket or Reference Number	An alpha-numeric field used to identify the ticket (ie. bill of lading) or other reference number of the shipping document.
22-24	3	Product Code	An alpha-numeric code which identifies the product that was shipped.
25-30	6	Shipping Date	A numeric field which contains the date that appears on the ticket or shipping document in the form MMDDYY.
31	1	REC/DEL Indicator	An alpha-numeric code which identifies the transaction as either a "R" receipt or "D" delivery of product.
32	1	Transaction Type	An alpha-numeric code which identifies the type of shipping transaction. Code    Type ----- A        Adjustment B        Barge L        Line Loss P        Pipeline R        Rail S        Tanker T        Truck X        Book Transfer Z        Product Transfer Order

33-41	9	Volume	A numeric un-signed field represents the NET volume of the shipment. There is an implied decimal based on the contract units of measure.
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Col	Length	Name	Description
42	1	Volume Sign	An alpha-numeric field which will contain a minus (-) to indicate a transaction reversal or a negative adjustment. Otherwise leave blank.
43-49	7	Grade Differential	A numeric un-signed field which represents the grade exchange differential in the form .XXXXXXX (implied decimal). The field is optional.
50	1	Grade Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative grade differential or a blank to indicate a positive grade differential.
51-57	7	Place Differential	A numeric un-signed field which represents the place exchange differential in the form .XXXXXXX (implied decimal). The field is optional.
58	1	Place sign	An alpha-numeric field which will contain a minus (-) to indicate a negative place differential or a blank to indicate a positive place differential.
59-65	7	Handling Differential	A numeric un-signed field which represents the handling exchange differential in the form .XXXXXXX (implied decimal). The field is optional.
66	1	Handling Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative handling differential or a blank to indicate a positive handling differential.
67-74	8	SPLC Name	An alpha-numeric which contains the name of the SPLC location.
<b>75-84</b>	<b>10</b>	<b><i>Senders proprietary product code.</i></b>	<b><i>An alpha-numeric field which contains the senders proprietary product code which corresponds to the Product Code shipped. (Optional)</i></b>
<b>85-93</b>	<b>9</b>	<b><i>Terminal Control Number</i></b>	<b><i>An alpha-numeric field identifying the Internal Revenue Service's Terminal Control Number. Use "NON-IRS" if not applicable such as for an asphalt terminal or refinery. (Optional)</i></b>
<b>94-101</b>	<b>8</b>	<b><i>Federal Excise Tax Rate</i></b>	<b><i>A numeric field unsigned field representing the Federal excise tax rate corresponding to the product shipped. There is an implied decimal (99.999999). (Optional)</i></b>

<b>102-109</b>	<b>8</b>	<b>State Excise Tax Rate</b>	<b><i>A numeric field unsigned field representing the State excise tax rate corresponding to the product shipped. There is an implied decimal (99.999999). (Optional)</i></b>
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Col	Length	Name	Description
110-111	2	State ID	<i>Numeric code to identify the destination state. (FIPS). Codes can be obtained from <a href="http://www.itl.nist.gov/fipspubs/55new/">www.itl.nist.gov/fipspubs/55new/</a> or <a href="http://www.epa.gov/enviro/html/codes/state.html">www.epa.gov/enviro/html/codes/state.html</a> (Optional. Note: this field should be populated when the State Excise Tax Rate field is populated.)</i>
112	1	Fee 1 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
113-125	13	Rate 1	A numeric un-signed field which represents the rate 1 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
126	1	Rate 1 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 1 differential or a blank to indicate a positive rate 1 differential.
127	1	Fee 2 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
128-140	13	Rate 2	A numeric un-signed field which represents the rate 2 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
141	1	Rate 2 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 2 differential or a blank to indicate a positive rate 2 differential.
142	1	Fee 3 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
143-155	13	Rate 3	A numeric un-signed field which represents the rate 3 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
156	1	Rate 3 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 3 differential or a blank to indicate a positive rate 3 differential.
157	1	Fee 4 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
158-170	13	Rate 4	A numeric un-signed field which represents the rate 4 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.

171	1	Rate 4 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 4 differential or a blank to indicate a positive rate 4 differential.
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Col	Length	Name	Description
172	1	Fee 5 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
173-185	13	Rate 5	A numeric un-signed field which represents the rate 5 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
186	1	Rate 5 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 5 differential or a blank to indicate a positive rate 5 differential.
187	1	Fee 6 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
188-200	13	Rate 6	A numeric un-signed field which represents the rate 6 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
201	1	Rate 6 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 6 differential or a blank to indicate a positive rate 6 differential.
202	1	Fee 7 Type	1 digit code to specify the fee type to associate with the fee rate that immediately follows. (See Fee Code Table)
203-215	13	Rate 7	A numeric un-signed field which represents the rate 6 exchange differential in the form: XX.XXXXXXXXXXX (include decimal point). The field is optional.
216	1	Rate 7 Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative rate 7 differential or a blank to indicate a positive rate 7 differential.
216			Total Record Length.

### Adjustments: Type 3

Col	Length	Name	Description
1	1	Record Type	A numeric code used to identify and separate different RECON formats. (3 for Type 3 Records)
2-3	2	Company Code	An alpha-numeric field used to identify the exchange company. Use PIDX Company Code
4-6	3	Product Code	An alpha-numeric code which identifies the product that was shipped. Use PIDX Product Code
7-12	6	SPLC	A numeric field used to identify the physical location of the terminal from which the product was withdrawn. These Standard Point Location Codes are maintained and distributed by the National Motor Freight Traffic Association as Continental Directory NMF102.
13-18	6	Transaction Date	A numeric field which contains the transaction date. MMDDYY for a specific date, or the end date for a group of transactions.
19-26	8	Volume	A numeric un-signed field represents the NET volume of the adjustment. There is an implied decimal based on the contract units of measure.
27	1	Volume Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative volume and be left blank for positive volumes.
28-37	10	Amount	A numeric un-signed field represents the amount of the adjustment. There is an implied decimal (XXXXXXXXXX.XX).
38	1	Amount Sign	An alpha-numeric field which will contain a minus (-) to indicate a negative amount and be left blank for positive amounts.
39-80	42	Description	Description of adjustment. Recommended descriptions: (research in progress)

80		Total Record Length	
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### Exchange Fee Code Table:

<u>Code</u>	<u>Description</u>
A	Additive Fee
E	Ethanol Fee
G	Grade Differential Fee
H	Handling Fee
I	Inventory Carrying Fee
L	Location Fee
O	Pump-Over Fee
P	Pipeline Tariff Fee
Q	Pipeline Loss Allowance Fee
R	Red Dye Fee

### Note regarding codes:

The following codes are issued and maintained by the PIDX Downstream eBusiness SIG. Please do not make up codes, contact the PIDX Downstream eBusiness SIG if you need a new code assigned or would like a copy of the list of existing approved codes. ( contact t h e P I D X D o w n s t r e a m e B u s i n e s s S I G ' s ( S p e c i f i c I n t e r e s t G r o u p ) F u e l S e t t l e m e n t W o r k G r o u p l e a d ( c u r r e n t l y - B e n F e u z - [ben.feuz@shell.com](mailto:ben.feuz@shell.com) ) . The current contact for PIDX Product Codes is: [R.Klawunn@conocophillips.com](mailto:R.Klawunn@conocophillips.com) ).

Company Codes  
Products Codes  
Transaction Type Code  
Fee Type Codes

## Notes Associated with the RECON File Format:

- 1) The RECON File should be in a basic text format (i.e., xxxxxxxx.TXT where the xxxxxxxx is the file name). The record lengths can be up to 216 characters and these records should not wrap to a 2<sup>nd</sup> line.
- 2) Type 0 records should only be created and included in the file if the contract has non-zero base product beginning and/or ending balances (Type 1 records) **and/or** activity (Type 2 or 3 records).
- 3) Type 1 records should only be created and included in the file if the base product has a non-zero beginning and/or ending balance **and/or** activity (Type 2 or 3 [volume] records) is associated with that base product (or type 1 record).
- 4) The original Type 2 record rate fields (“Grade”, “Place”, & “Handling”) should be populated appropriately (these are the rate field from the version 2 standard).
- 5) The sum of all the rates in the new rate fields (the new rates that start in column 12 and beyond) should equal the sum of the “version 2 rates” to within +/- .0000002. (version 2 rates are the rates populated in the type 2 record in columns 43 through 66.)
- 6) The receiving company has the option to still use the old format rates for processing and ignore the new rate fields until they have time to update their system to handle individual rate information.
- 7) Sequencing: All records associated with a contract should follow the Type 0 record for that contract. All records associated with a base product should follow the Type 1 record for that base product. The following is an example of record type sequencing:

```

0AB... (contract record)
3AB... (money adjustment record(s) associated with 1st contract)
1AB... (base product record 1st base associated with 1st contract)
2AB... (regular movement/transaction record(s) associated with 1st base)
3AB... (volume adjustment record(s) associated with 1st base)
1AB... (base product record 2nd base associated with 1st contract)
2AB... (regular movement/transaction record(s) associated with 2nd base)
3AB... (volume adjustment record(s) associated with 2nd base)
1AB... (base product record 3rd base associated with 1st contract)
2AB... (regular movement/transaction record(s) associated with 3rd base)
2AB... (regular movement/transaction record(s) associated with 3rd base)
2AB... (regular movement/transaction record(s) associated with 3rd base)
3AB... (volume adjustment record(s) associated with 3rd base)
.
.
.
0AB... (contract record - next contract)

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## **Note (Clarification of Company Code):**

Clarification of the company code usage in the “RECON” data file. Whose company code should be in column position 2 and 3 for all record types?

Currently some RECON files are created with the sending company’s (data owner’s) company code in this location, while others create the file with the receiving company’s (exchange partner) company code. This confusion arose from the fact that there are multiple methods of transmitting these data file between partners (direct or via a VAN). If the RECON data file is sent directly to the partner then the company codes in the data does not change. If the RECON data file is sent via a VAN (i.e., DTN Energy’s PetroDex service - formerly provided by GE), the company code is switch during this process.

The subcommittee determined that it is the responsibility of the sending company (data owner) to determine and use the correct company code that will result in the receiving company always receiving the data file with the sending company’s (data owner’s) company code in column position 2 & 3 for all records in the file. In order to achieve this result, apply the following rules:

If you are sending the file via a VAN, the company code used in column position 2 & 3 should be the exchange partner’s company code. This assumes the VAN service switches the company code during the processing of the data.

If you are sending the file directly to the final customer (via e-mail, FTP server, etc.), the company code used in column position 2 & 3 should be your (data owner’s) company code. This assumes the method of data transfer used (i.e., e-mail, etc.) does not modify the company code.

## **RECON - Miscellaneous Volume and Money Adjustment - Type 3**

### Issue

Previously, the RECON data standards did not provide the capability to transmit miscellaneous volume and money adjustments. This results in an incomplete exchange data transfer. The transferred data does not reconcile to the printed exchange statement. The type 3 record usually only contains volume or amount data, not both.

### Objective

To recognize non-standard adjustments to volume and money on exchange contracts.

### Validation Processing

Money only adjustments are associated with the current type 0 record (ie. Insert after a type 0 record and before a type 1 record).

Volume adjustments are associated with the current type 1 record (ie. Insert after a type 1 record).

Volume adjustments do not require an amount value.

Value adjustments do not require a volume.

Product-location data is required for a volume amount.

The amount data (in a money adjustment) represents a total amount. This does NOT represent a rate.

The type 0 record count should include type 3 records.