

**A Petroleum Industry Data Exchange**

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**Electronic Data Interchange**

***Well Operations Data Exchange (WODEX)  
A Joint Interest Data Exchange Application***



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The Well Operations Data Exchange (WODEX) application is part of a series of EDI Implementation Guides published by the PIDX for Joint Interest Data Exchange (JIDX). Other applications under JIDX include Authorization for Expenditures Exchange (AFEX) and Joint Interest Billing Exchange (JIBE). For further information on these Implementation Guides, contact PIDX at (202) 682-8184.

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# **Introduction**

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# 10.0 INDUSTRY CONVENTIONS FOR ASC X12 TRANSACTION SETS

## 10.1 Introduction

### Understanding Standards, Conventions and Guidelines

The PIDX Implementation Guide uses the terms standards, conventions, and guidelines and the following definitions are provided to assist the reader in understanding the difference between the terms:

- **Standards**

Standards are the technical documentation approved by ASC X12, specifically Transaction Sets, Segments, Data Elements, Code sets and Interchange Control Structure. Standards define what is included in each ASC X12 standard.

- **Conventions**

Conventions are the common practices and/or interpretations of the use of ASC X12 standards, complying with the standards as agreed upon by two or more trading partners. Conventions define what is included in a specific implementation of an ASC X12 standard.

- **Guidelines**

Guidelines are instructions on the use of EDI and additional information to conduct EDI. Guidelines are intended to provide assistance on how to implement EDI.

### Transaction Set Segment Hierarchy

The Application Control Structure, ANSI X12.6 contains the formal definitions of all terms related to EDI. The following terms and definitions used in the Transaction Set Segment Hierarchy are consistent with those formal definitions:

- **Segment Identifier (Seg ID)**

Each segment has a unique identifier composed of a combination of one uppercase letter and one or two uppercase letter(s) and/or digit(s). The identifier serves as a name for the segment and occupies the first character positions of the segment. The segment identifier is not a data element.

- **Segment Name (Name)**

The name of the segment as defined in the ASC X12 standards.

- **Segment Requirement Designator (Req Des)**

This column identifies the usage of this segment within this transaction according to the ASC X12 standards. Segments designated as Mandatory or Required must appear within the transaction set, while all other requirement designations need not appear within the transaction set if unused.

The Transaction Set Segment Hierarchy shows which segments may be used in a transaction set and their proper sequence within the transaction set. Segments may not appear in any other sequence without violating the compliance rules of the ASC X12 syntax.

- **Maximum Use of Segments (Use)**

This column identifies how many times a particular segment may be repeated at its location in the transaction set. Rather than a stated maximum number of times, Max Use in several of the newer transaction sets is defined in terms of "one or more than one" occurrence.

- **Loops of Segments (Loop)**

Loops identify how a specified group of segments may repeat within a transaction set. Loops may be nested, but may not be crossed.

### Industry Model

The model is the industry's actual transaction set. This permits readers to visualize the actual content of an implemented transaction set.

### Terms and Definitions

- **Page Number**

Page number refers the reader to the corresponding page within this version of this transaction set convention for further information about the particular segment.

- **Maximum Use of Segments (Use)**

An industry may choose to set a lower maximum use than the max use defined by the ASC X12 standard, but may not define a higher max use.

### Segment Directory

#### FORMAT

As in the other chapters of this document, chapter 10 maintains the 33/67 split of the physical page. However, there are several connotations of this split within chapter 10.

When transaction sets are presented in chapter 10, the actual ASC X12 standard as it appears in the official X12 standards manual is presented on the right-hand side of the page. This also includes both the syntax notes and comments. The specific industry usage designators and notes appear after the last data element of the segment. Industry usage is always specified whether it is identical to or a variation from the usage specified by the standard.

A segment directory contains the definitions and formats used by the industry in the construction of each particular transaction set. This segment by segment description permits the reader to examine the specific usage of each data element and segment in the transaction set.

### Terms and Definitions

- **Level**

The level identifies if the segment is used at the Header, Detail or Summary level of the transaction.

- **Segment Requirement Designator (Req Des)**

The following definitions are for use in interpreting the requirement

designators in the industry specific Segment Directory section of the guideline.

- **Mandatory**

This segment is mandatory as defined by ASC X12.

- **Not Commonly Used**

This segment is not commonly used by the industry, but may be used at the option of the trading partners.

- **Optional**

This segment is used at the option of the trading partners.

- **Required**

This segment is considered optional under ASC X12 rules, but is required by industry decision.

- **Recommended**

This segment is considered optional both under ASC X12 rules and by the industry, but is recommended by the industry to facilitate EDI. It is anticipated that most companies in the industry will use this segment.

- **Data Element Requirement Designator**

The following definitions are for use in interpreting the requirement designators in the industry specific Segment Directory section of the guideline. For ASC X12 usage, see the definitions in X12.6 Application Control Structure.

- **Mandatory**

This data element is mandatory as defined by ASC X12.

- **Optional**

This data element is used at the option of the sending party or is based upon the mutual agreement of trading partners.

- **Required**

This data element is considered optional under ASC X12 rules, but is required by industry decision.

- **Recommended**

This data element is considered optional both under ASC X12 rules and by the industry, but its use is recommended by the industry to facilitate EDI. It is anticipated that most companies in the industry will use this data element.

- **Not Used**

This data element is not used by the industry. However, this does not guarantee that a specific trading partner will not utilize it.

- **Conditional**

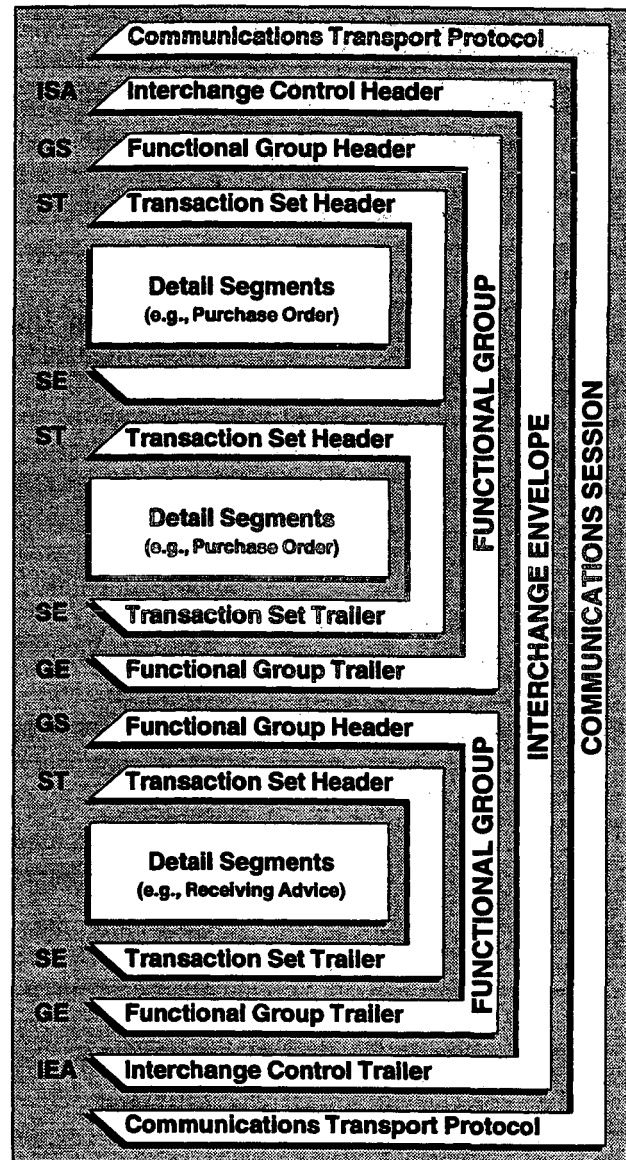
The presence of this data element is dependent on the value or presence of other data elements in the transaction set.

## 10.2 Control Segments

To allow transaction sets of different types to be transmitted from one party to another in the same transmission, a hierarchical structure of headers and trailers allows the data to be segregated logically for easy interpretation by the receiver.

Transaction sets begin with an "ST" header and end with an "SE" trailer. Several transaction sets of the same type may be "functionally grouped" together by beginning such a group with a "GS" header and ending the group with a "GE" trailer. One or more functional groups are bound together for transmission within an interchange "envelope" made up of an "ISA" header and an "IEA" trailer.

The structures of the transaction set and functional group headers and trailers are found in the Segment Directory. The structures of the interchange control header and trailer are found in the Interchange Control Structure standard (dpANS X12.5 - 1989).



The schematic illustrates a typical format for electronically transmitting a series of diverse business transactions.

## **10.7 Well Operations Data Exchange (WODEX)**

**867 Well Test Information**

**867 Well Detail Information**

**867 Production History - Property Level**

**867 Production History - Well Level**

**997 Functional Acknowledgment**



**Segment: ISA** Interchange Control Header

**Purpose:** To start and identify an interchange of one or more functional groups and interchange-related control segments.

### Data Element Summary

| REF.<br>DES. | DATA<br>ELEMENT | NAME                                                                                                                                                                                                                                               | ATTRIBUTES |
|--------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ISA01        | I01             | <b>Authorization Information Qualifier</b><br>Code to identify the type of information in the Authorization Information.                                                                                                                           | M ID 2/2   |
|              |                 | 00 No Authorization Information Present (No Meaningful Information in I02)                                                                                                                                                                         |            |
| ISA02        | I02             | <b>Authorization Information</b><br>Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.                       | M AN 10/10 |
| ISA03        | I03             | <b>Security Information Qualifier</b><br>Code to identify the type of information in the Security Information.                                                                                                                                     | M ID 2/2   |
|              |                 | 00 No Security Information Present (No Meaningful Information in I04)                                                                                                                                                                              |            |
| ISA04        | I04             | <b>Security Information</b><br>This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.                                        | M AN 10/10 |
| ISA05        | I05             | <b>Interchange ID Qualifier</b><br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.                                                                                 | M ID 2/2   |
|              |                 | 01 Duns (Dun & Bradstreet)                                                                                                                                                                                                                         |            |
|              |                 | 16 Duns Number With 4-Character Suffix                                                                                                                                                                                                             |            |
|              |                 | ZZ Mutually Defined                                                                                                                                                                                                                                |            |
| ISA06        | I06             | <b>Interchange Sender ID</b><br>Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element.                                       | M ID 15/15 |
| ISA07        | I05             | <b>Interchange ID Qualifier</b><br>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.                                                                                 | M ID 2/2   |
|              |                 | 01 Duns (Dun & Bradstreet)                                                                                                                                                                                                                         |            |
|              |                 | 16 Duns Number With 4-Character Suffix                                                                                                                                                                                                             |            |
|              |                 | ZZ Mutually Defined                                                                                                                                                                                                                                |            |
| ISA08        | I07             | <b>Interchange Receiver ID</b><br>Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them. | M ID 15/15 |
| ISA09        | I08             | <b>Interchange Date</b><br>Date of the interchange.                                                                                                                                                                                                | M DT 6/6   |
| ISA10        | I09             | <b>Interchange Time</b><br>Time of the interchange.                                                                                                                                                                                                | M TM 4/4   |

|                                                                                                                                                                                                                                                                                                                                   |     |                                                 |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------|----------|
| ISA11                                                                                                                                                                                                                                                                                                                             | I10 | <b>Interchange Control Standards Identifier</b> | M ID 1/1 |
| Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.                                                                                                                                                                                      |     |                                                 |          |
| U U.S. EDI Community of ASC X12, TDCC, and UCS                                                                                                                                                                                                                                                                                    |     |                                                 |          |
| ISA12                                                                                                                                                                                                                                                                                                                             | I11 | <b>Interchange Control Version Number</b>       | M ID 5/5 |
| This version number covers the interchange control segments and the functional group control segments.                                                                                                                                                                                                                            |     |                                                 |          |
| 00303 Draft Standard for Trial Use Approved for Publication by<br>ASC X12 Procedures Review Board Through October<br>1992                                                                                                                                                                                                         |     |                                                 |          |
| ISA13                                                                                                                                                                                                                                                                                                                             | I12 | <b>Interchange Control Number</b>               | M NO 9/9 |
| This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number. |     |                                                 |          |
| ISA14                                                                                                                                                                                                                                                                                                                             | I13 | <b>Acknowledgment Requested</b>                 | M ID 1/1 |
| Code sent by the sender to request an interchange acknowledgment.                                                                                                                                                                                                                                                                 |     |                                                 |          |
| 0 No Acknowledgment Requested                                                                                                                                                                                                                                                                                                     |     |                                                 |          |
| ISA15                                                                                                                                                                                                                                                                                                                             | I14 | <b>Test Indicator</b>                           | M ID 1/1 |
| Code to indicate whether data enclosed by this interchange envelope is test or production.                                                                                                                                                                                                                                        |     |                                                 |          |
| P Production Data                                                                                                                                                                                                                                                                                                                 |     |                                                 |          |
| T Test Data                                                                                                                                                                                                                                                                                                                       |     |                                                 |          |
| ISA16                                                                                                                                                                                                                                                                                                                             | I15 | <b>Subelement Separator</b>                     | M AN 1/1 |
| This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator).                                                                                                                        |     |                                                 |          |
| Use the colon (:).                                                                                                                                                                                                                                                                                                                |     |                                                 |          |

**Segment:** **GS** Functional Group Header**Purpose:** To indicate the beginning of a functional group and to provide control information**Syntax:** 1 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).**Comments:** A A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.**Data Element Summary**

| REF.<br>DES.                                                                                                                                                                   | DATA<br>ELEMENT | NAME                                                                                                                                                                                                                                                                                                                               | ATTRIBUTES |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| GS01                                                                                                                                                                           | 479             | <b>Functional Identifier Code</b><br>Code identifying a group of application related Transaction Sets.                                                                                                                                                                                                                             | M ID 2/2   |
| PT Product Transfer and Resale Report (867)                                                                                                                                    |                 |                                                                                                                                                                                                                                                                                                                                    |            |
| GS02                                                                                                                                                                           | 142             | <b>Application Sender's Code</b><br>Code identifying party sending transmission. Codes agreed to by trading partners.                                                                                                                                                                                                              | M AN 2/15  |
| GS03                                                                                                                                                                           | 124             | <b>Application Receiver's Code</b><br>Code identifying party receiving transmission. Codes agreed to by trading partners.                                                                                                                                                                                                          | M AN 2/15  |
| GS04                                                                                                                                                                           | 373             | <b>Date</b><br>Date (YYMMDD).                                                                                                                                                                                                                                                                                                      | M DT 6/6   |
| GS05                                                                                                                                                                           | 337             | <b>Time</b><br>Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)                                                                                                                                                                                                                                   | M TM 4/4   |
| GS06                                                                                                                                                                           | 28              | <b>Group Control Number</b><br>Assigned number originated and maintained by the sender.                                                                                                                                                                                                                                            | M NO 1/9   |
| GS07                                                                                                                                                                           | 455             | <b>Responsible Agency Code</b><br>Code used in conjunction with Data Element 480 to identify the issuer of the standard.                                                                                                                                                                                                           | M ID 1/2   |
| X Accredited Standards Committee X12                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                    |            |
| GS08                                                                                                                                                                           | 480             | <b>Version/Release/Industry ID Code</b><br>Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user). | M ID 1/12  |
| 003030WODXWT Well Test Information<br>003030WODXWI Well Detail Information<br>003030WODXPH Production History - Property Level<br>003030WODXPW Production History - Well Level |                 |                                                                                                                                                                                                                                                                                                                                    |            |

**Segment:** **GE** Functional Group Trailer

**Purpose:** To indicate the end of a functional group and to provide control information

**Syntax:** 1 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

**Comments:** A The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

#### Data Element Summary

| REF.<br>DES. | DATA<br>ELEMENT | NAME                                                                                                                                                                                                        | ATTRIBUTES |
|--------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| GE01         | 97              | <b>Number of Transaction Sets Included</b><br>Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element. | M NO 1/6   |
| GE02         | 28              | <b>Group Control Number</b><br>Assigned number originated and maintained by the sender.                                                                                                                     | M NO 1/9   |

**Segment:** **IEA** Interchange Control Trailer

**Purpose:** To define the end of an interchange of one or more functional groups and interchange-related control segments.

### Data Element Summary

| REF.<br>DES. | DATA<br>ELEMENT | NAME                                                                                                                                                                                                                                                                                                                                                                   | ATTRIBUTES |
|--------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| IEA01        | I16             | <b>Number of Included Functional Groups</b><br>A count of the number of functional groups included in a transmission.                                                                                                                                                                                                                                                  | M NO 1/5   |
| IEA02        | I12             | <b>Interchange Control Number</b><br>This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number. | M NO 9/9   |



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# 867 Product Transfer and Resale Report

FUNCTIONAL GROUP ID = **PT**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

This PIDX Well Operations Data Exchange User Group implementation of ASC X12 transaction set 867 is used for Well Test Information.

## Header

| Page No. | Pos. No. | Seg. ID | Name                                              | Req. Des. | Max. Use | Loop Repeat |
|----------|----------|---------|---------------------------------------------------|-----------|----------|-------------|
| 3        | 010      | ST      | Transaction Set Header                            | M         | 1        |             |
| 4        | 020      | BPT     | Beginning Segment for Product Transfer and Resale | M         | 1        |             |
| Not Used | 040      | CUR     | Currency                                          | O         | 1        |             |
| Not Used | 050      | DTM     | Date/Time Reference                               | O         | 10       |             |
| Not Used | 060      | REF     | Reference Numbers                                 | O         | 12       |             |
| Not Used | 070      | PER     | Administrative Communications Contact             | O         | 3        |             |
| 5        | 080      | N1      | Name                                              | O         | 1        | 5           |
| Not Used | 090      | N2      | Additional Name Information                       | O         | 2        |             |
| Not Used | 100      | N3      | Address Information                               | O         | 2        |             |
| Not Used | 110      | N4      | Geographic Location                               | O         | 1        |             |
| Not Used | 120      | REF     | Reference Numbers                                 | O         | 12       |             |
| Not Used | 130      | PER     | Administrative Communications Contact             | O         | 3        |             |

## Detail

|          |     |     |                                       |   |    |       |
|----------|-----|-----|---------------------------------------|---|----|-------|
| 6        | 010 | PTD | Product Transfer and Resale Detail    | M | 1  | 10000 |
| Not Used | 020 | DTM | Date/Time Reference                   | O | 10 |       |
| Not Used | 030 | REF | Reference Numbers                     | O | 20 |       |
| Not Used | 035 | PRF | Purchase Order Reference              | O | 1  |       |
| Not Used | 040 | PER | Administrative Communications Contact | O | 3  |       |
| Not Used | 050 | N1  | Name                                  | O | 1  | 5     |
| Not Used | 060 | N2  | Additional Name Information           | O | 2  |       |
| Not Used | 070 | N3  | Address Information                   | O | 2  |       |
| Not Used | 080 | N4  | Geographic Location                   | O | 1  |       |

|          |     |     |                                       |   |     |    |
|----------|-----|-----|---------------------------------------|---|-----|----|
| Not Used | 090 | REF | Reference Numbers                     | O | 20  |    |
| Not Used | 100 | PER | Administrative Communications Contact | O | 3   |    |
| 7        | 110 | QTY | Quantity                              | O | 1   | >1 |
| Not Used | 120 | LIN | Item Identification                   | O | 1   |    |
| Not Used | 130 | UIT | Unit Detail                           | O | 12  |    |
| Not Used | 140 | AMT | Monetary Amount                       | O | 12  |    |
| Not Used | 141 | ITA | Allowance, Charge or Service          | O | 10  |    |
| 8        | 150 | PID | Product/Item Description              | O | 200 |    |
| 10       | 160 | MEA | Measurements                          | O | 40  |    |
| Not Used | 170 | PWK | Paperwork                             | O | 25  |    |
| Not Used | 180 | PKG | Marking, Packaging, Loading           | O | 25  |    |
| Not Used | 190 | REF | Reference Numbers                     | O | >1  |    |
| Not Used | 200 | PER | Administrative Communications Contact | O | 3   |    |
| 13       | 210 | DTM | Date/Time Reference                   | O | 10  |    |
| Not Used | 220 | CUR | Currency                              | O | 1   |    |
| Not Used | 230 | MAN | Marks and Numbers                     | O | 1   |    |

### Summary

|          |     |     |                              |   |    |   |
|----------|-----|-----|------------------------------|---|----|---|
| 14       | 010 | CTT | Transaction Totals           | M | 1  |   |
| Not Used | 020 | AMT | Monetary Amount              | O | 12 |   |
| Not Used | 021 | ITA | Allowance, Charge or Service | O | 10 |   |
| 16       | 030 | SE  | Transaction Set Trailer      | M | 1  | • |

**Segment:** **ST** Transaction Set Header

**Level:** Header

**Loop:** \_\_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

#### Data Element Summary

| REF.<br>DES.                                  | DATA<br>ELEMENT | NAME                                                                                                                                                                                 | ATTRIBUTES |
|-----------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| ST01                                          | 143             | <b>Transaction Set Identifier Code</b><br>Code uniquely identifying a Transaction Set.                                                                                               | M ID 3/3   |
| 867 X12.33 Product Transfer and Resale Report |                 |                                                                                                                                                                                      |            |
| ST02                                          | 329             | <b>Transaction Set Control Number</b><br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9   |

**Segment:** **BPT** Beginning Segment for Product Transfer and Resale

**Level:** Header

**Loop:** \_\_\_\_\_

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of the product transfer and/or resale report and transmit identifying data.

**Syntax:** 1 P0506

If either BPT05 or BPT06 is present, then the other is required.

**Notes:** WODEX uses this BPT segment to identify the purpose of the send, report creation date and type of information.

#### Data Element Summary

| REF. DES. | DATA ELEMENT | NAME                                                                                                                                                                 | ATTRIBUTES |
|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| BPT01     | 353          | <b>Transaction Set Purpose Code</b><br>Code identifying purpose of transaction set.                                                                                  | M ID 2/2   |
|           |              | 00 Original<br>First submission                                                                                                                                      |            |
|           |              | 04 Change<br>Update                                                                                                                                                  |            |
|           |              | 15 Re-Submission<br>Error correction                                                                                                                                 |            |
| BPT02     | 127          | <b>Reference Number</b><br>Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. | M AN 1/30  |
|           |              | Sender assigned number to identify this transaction.                                                                                                                 |            |
| BPT03     | 373          | <b>Date</b><br>Date (YYMMDD).                                                                                                                                        | M DT 6/6   |
|           |              | Report creation date                                                                                                                                                 |            |
| BPT04     | 755          | <b>Report Type Code</b><br>Code indicating the title or contents of a document, report or supporting item                                                            | O ID 2/2   |
|           |              | Required by WODEX                                                                                                                                                    |            |
|           |              | WT Well Test Information                                                                                                                                             |            |
| BPT05     | 648          | <b>Price Multiplier Qualifier</b><br>Code indicating the type of price multiplier.                                                                                   | C ID 3/3   |
|           |              | Not Used by WODEX                                                                                                                                                    |            |
| BPT06     | 649          | <b>Multiplier</b><br>Value to be used as a multiplier to obtain a new value                                                                                          | C R 1/10   |
|           |              | Not Used by WODEX                                                                                                                                                    |            |

**Segment:** N1 Name

**Level:** Header

**Loop:** N1 **Repeat:** 5

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name and code

**Notes:** WODEX uses this N1 segment to identify the transmitting company. This is a "key" required element.

Reservoir code is a "key" required element.

### Data Element Summary

| REF.<br>DES. | DATA<br>ELEMENT | NAME                                                                                                                            | ATTRIBUTES |
|--------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------|------------|
| N101         | 98              | <b>Entity Identifier Code</b><br>Code identifying an organizational entity, a physical location, or an individual               | M ID 2/2   |
|              |                 | RV Reservoir<br>Use API assigned code pending ASC X12 Data Maintenance.                                                         |            |
|              |                 | OP Operator of property or unit                                                                                                 |            |
| N102         | 93              | <b>Name</b><br>Free-form name.                                                                                                  | C AN 1/35  |
| N103         | 66              | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67). | C ID 1/2   |
|              |                 | 32 Assigned by Property Operator<br>Used when N101 contains "RV".                                                               |            |
|              |                 | 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix<br>Use when N101 contains "OP".                                          |            |
| N104         | 67              | <b>Identification Code</b><br>Code identifying a party or other code.                                                           | C AN 2/17  |
|              |                 | Required by WODEX                                                                                                               |            |

**Segment:** **PTD** Product Transfer and Resale Detail

**Level:** Detail

**Loop:** PTD **Repeat:** 10000

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data.

**Notes:** Wodex uses this PTD segment to identify the API well number, a "key" required element.

WODEX also uses this PID segment to identify whether the accompanying well test is to be used in the allocation process or if it is only for informational purposes.

### Data Element Summary

| REF. DES. | DATA ELEMENT | NAME                                                                                                                                                                 | ATTRIBUTES |
|-----------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| PTD01     | 521          | <b>Product Transfer Type Code</b><br>Code identifying the type of product transfer.                                                                                  | M ID 2/2   |
|           |              | WODEX use assigned code values:                                                                                                                                      |            |
|           |              | AA Allocated Well Test<br>II Informational Test Only                                                                                                                 |            |
| PTD02     | 648          | <b>Price Multiplier Qualifier</b><br>Code indicating the type of price multiplier.                                                                                   | C ID 3/3   |
|           |              | Not Used by WODEX                                                                                                                                                    |            |
| PTD03     | 649          | <b>Multiplier</b><br>Value to be used as a multiplier to obtain a new value                                                                                          | C R 1/10   |
|           |              | Not Used by WODEX                                                                                                                                                    |            |
| PTD04     | 128          | <b>Reference Number Qualifier</b><br>Code qualifying the Reference Number.                                                                                           | C ID 2/2   |
|           |              | WN Well Number                                                                                                                                                       |            |
| PTD05     | 127          | <b>Reference Number</b><br>Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. | C AN 1/30  |
|           |              | API Well Number                                                                                                                                                      |            |
| PTD06     | 486          | <b>Product Transfer Movement Type Code</b><br>To indicate the type of product transfer movement.                                                                     | O ID 2/2   |
|           |              | Not Used by WODEX                                                                                                                                                    |            |

Segment: **QTY** Quantity

Level: Detail

Loop: PTD/QTY Repeat: >1

Usage: Optional

Max Use: 1

Purpose: To specify quantity information.

Notes: Wodex uses this QTY segment to transmit well test volumes.

### Data Element Summary

| REF. DES. | DATA ELEMENT | NAME                                                                                                                                                 | ATTRIBUTES |
|-----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| QTY01     | 673          | Quantity Qualifier<br>Code specifying the type of quantity.                                                                                          | M ID 2/2   |
|           |              | 01 Discrete Quantity                                                                                                                                 |            |
| QTY02     | 380          | Quantity<br>Numeric value of quantity.                                                                                                               | M R 1/15   |
|           |              | Use the value "1".                                                                                                                                   |            |
| QTY03     | 355          | Unit or Basis for Measurement Code<br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | O ID 2/2   |
|           |              | Not Used by WODEX                                                                                                                                    |            |

| REQ | QTY01                                                                                                     | QTY02 | QTY03                    |
|-----|-----------------------------------------------------------------------------------------------------------|-------|--------------------------|
| R   | OIL/CONDENSATE TEST VOLUME                                                                                |       |                          |
|     | LV                                                                                                        | 5     | BR (Barrels)             |
| R   | GAS TEST VOLUME                                                                                           |       |                          |
|     | GV                                                                                                        | 6     | TZ (Thousand Cubic Feet) |
| R   | WATER TEST VOLUME                                                                                         |       |                          |
|     | WV                                                                                                        | 5     | BR (Barrels)             |
| C   | LIQUID INJECTION TEST VOLUME                                                                              |       |                          |
|     | If the PID segment in this PTD loop is used with PID01= "WTT" and PID04 = "I", then this QTY is required. |       |                          |
|     | LI                                                                                                        | 5     | BR (Barrels)             |
| C   | GAS INJECTION TEST VOLUME                                                                                 |       |                          |
|     | If the PID segment in this PTD loop is used with PID01= "WTT" and PID04 = "I", then this QTY is required. |       |                          |
|     | GI                                                                                                        | 6     | TZ (Thousand Cubic Feet) |

**Segment:** PID Product/Item Description

**Level:** Detail

**Loop:** PTD/QTY

**Usage:** Optional

**Max Use:** 200

**Purpose:** To describe a product or process in coded or free-form format

**Notes:** One PID segment is required to transmit information on well test type (when PID02 contains "WTT").

### Data Element Summary

| REF. DES. | DATA ELEMENT | NAME                                                                                                                                                                                                | ATTRIBUTES |
|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| PID01     | 349          | <b>Item Description Type</b><br>Code indicating the format of a description.                                                                                                                        | M ID 1/1   |
|           |              | S Structured (From Industry Code List)                                                                                                                                                              |            |
| PID02     | 750          | <b>Product/Process Characteristic Code</b><br>Code identifying the general class of a product or process characteristic                                                                             | O ID 2/3   |
|           |              | BPI Bottomhole Pressure Method Indicator Code                                                                                                                                                       |            |
|           |              | WTT Well Test Type                                                                                                                                                                                  |            |
| PID03     | 559          | <b>Agency Qualifier Code</b><br>Code identifying the agency assigning the code values.                                                                                                              | C ID 2/2   |
|           |              | AP American Petroleum Institute                                                                                                                                                                     |            |
| PID04     | 751          | <b>Product Description Code</b><br>A code from an industry code list which provides specific data about a product characteristic.                                                                   | C AN 1/12  |
|           |              | When PID02 contains "BPI" the following values indicate the "Bottomhole Pressure Method":<br>TM Measured<br>C Calculated                                                                            |            |
|           |              | PIDD# 2143 (Well Test Type)<br>When PID02 contains "WTT" the following codes indicate the "Well Test Type":<br>B Bottomhole<br>F Flowing<br>G Gas Lift<br>I Injection<br>P Pumping<br>S Submersible |            |
| PID05     | 352          | <b>Description</b><br>A free-form description to clarify the related data elements and their content.                                                                                               | C AN 1/80  |
|           |              | Well test comments (maximum length is 50 characters). Narrative comments pertaining to a specific production well test for the well.                                                                |            |
| PID06     | 752          | <b>Surface/Layer/Position Code</b><br>Code indicating the product surface, layer or position that is being described.                                                                               | O ID 2/2   |
|           |              | Not Used by WODEX                                                                                                                                                                                   |            |