

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 implementation of ASC X12 003030 transaction set 867 is used for Well Detail Information. Within this implementation there are two distinct uses for the QTY loop. In order to convey these two uses, the entire QTY loop has been artificially duplicated.

Header

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
4	010	ST	Transaction Set Header	M	1	
5	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	
6	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

7	010	PTD	Product Transfer and Resale Detail	M	1	10000
8	020	DTM	Date/Time Reference	O	10	
9	030	REF	Reference Numbers	O	20	
Not Used	035	PRF	Purchase Order Reference	O	1	
Not Used	040	PER	Administrative Communications Contact	O	3	
11	050	N1	Name	O	1	5
Not Used	060	N2	Additional Name Information	O	2	



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WODEX Conventions for EDI

867 Well Detail Information

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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	
12	101 QTY	Quantity	O	1	>1
Not Used	102 LIN	Item Identification	O	1	
Not Used	103 UIT	Unit Detail	O	12	
Not Used	104 AMT	Monetary Amount	O	12	
Not Used	105 ITA	Allowance, Charge or Service	O	10	
Not Used	106 PID	Product/Item Description	O	200	
13	107 MEA	Measurements	O	40	
Not Used	108 PWK	Paperwork	O	25	
Not Used	109 PKG	Marking, Packaging, Loading	O	25	
16	110 REF	Reference Numbers	O	>1	
Not Used	111 PER	Administrative Communications Contact	O	3	
Not Used	112 DTM	Date/Time Reference	O	10	
Not Used	113 CUR	Currency	O	1	
17	201 QTY	Quantity	O	1	>1
Not Used	202 LIN	Item Identification	O	1	
Not Used	203 UIT	Unit Detail	O	12	
Not Used	204 AMT	Monetary Amount	O	12	
Not Used	205 ITA	Allowance, Charge or Service	O	10	
18	206 PID	Product/Item Description	O	200	
20	207 MEA	Measurements	O	40	
Not Used	208 PWK	Paperwork	O	25	
22	209 PKG	Marking, Packaging, Loading	O	25	
Not Used	210 REF	Reference Numbers	O	>1	
Not Used	211 PER	Administrative Communications Contact	O	3	
Not Used	212 DTM	Date/Time Reference	O	10	
Not Used	213 CUR	Currency	O	1	
Not Used	230 MAN	Marks and Numbers	O	1	

Summary

24	010 CTT	Transaction Totals	M	1	
Not Used	020 AMT	Monetary Amount	O	12	
Not Used	021 ITA	Allowance, Charge or Service	O	10	
26	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
Semantic: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
		867 X12.33 Product Transfer and Resale Report	
ST02	329	Transaction Set Control Number 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.
Semantic: 1 BPT02 identifies the transfer/resale number.
 2 BPT03 identifies the transfer/resale date.
Notes: **WODEX uses this BPT segment to identify the purpose of the send, transmission date and type of information.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
BPT01	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	M ID 2/2
		00 Original First submission	
		04 Change Update	
		15 Re-Submission Error correction	
BPT02	127	Reference Number 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 transmission.	
BPT03	373	Date Date (YYMMDD).	M DT 6/6
		Report creation date	
BPT04	755	Report Type Code Code indicating the title or contents of a document, report or supporting item	O ID 2/2
		WI Well Information	
BPT05	648	Price Multiplier Qualifier Code indicating the type of price multiplier.	C ID 3/3
		Not Used by WODEX	
BPT06	649	Multiplier 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
Syntax: 1 **R0203**
 At least one of N102 or N103 is required.
 2 **P0304**
 If either N103 or N104 is present, then the other is required.
Comments: **A** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
Notes: **Required by WODEX**

WODEX uses this N1 segment to identify the transmitting company. This is a "key" required element.
It is also required to transmit information on property names, company assigned well ID, reservoir code and company field code.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	M ID 2/2
		OP Operator of property or unit	
N102	93	Name Free-form name.	C AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix Used when N101 contains "OP".	
N104	67	Identification Code Code identifying a party or other code.	C AN 2/17

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.
Syntax: 1 **P0203**
 If either PTD02 or PTD03 is present, then the other is required.
 2 **P0405**
 If either PTD04 or PTD05 is present, then the other is required.

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

WODEX also uses this PTD segment to indicate whether a well is on or off shore.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PTD01	521	Product Transfer Type Code Code identifying the type of product transfer.	M ID 2/2
		OF Offshore Movement/Sale	
		ON Onshore Movement/Sale	
PTD02	648	Price Multiplier Qualifier Code indicating the type of price multiplier.	C ID 3/3
		Not Used by WODEX	
PTD03	649	Multiplier Value to be used as a multiplier to obtain a new value	C R 1/10
		Not Used by WODEX	
PTD04	128	Reference Number Qualifier Code qualifying the Reference Number.	C ID 2/2
		WN Well Number	
PTD05	127	Reference Number 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	Product Transfer Movement Type Code To indicate the type of product transfer movement.	O ID 2/2
		Not Used by WODEX	

Segment: **DTM** Date/Time Reference
Level: Detail
Loop: PTD
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax: 1 **R0203**
 At least one of DTM02 or DTM03 is required.

Notes: **At least two DTM segments are required. See notes under DTM01.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		217 Spud One DTM segment is required using this code value.	
		218 Initial Completion One DTM segment is required using this code value.	
		219 Plugged and Abandoned	
DTM02	373	Date Date (YYMMDD).	C DT 6/6
DTM03	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	C TM 4/6
		Not Used by WODEX	
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O ID 2/2
		Not Used by WODEX	
DTM05	624	Century The first two characters in the designation of the year (CCYY).	O NO 2/2

Segment: REF Reference Numbers
Level: Detail
Loop: PTD
Usage: Optional
Max Use: 20
Purpose: To specify identifying numbers.
Syntax: 1 R0203
 At least one of REF02 or REF03 is required.

Notes: One REF segment is required to transmit information on surface location method code. There are two optional uses for this REF segment.

The chart following REF03 details the three possible uses for this REF segment.

The first column indicates the requirement of each loop: R=Required, C=Conditional, O=Optional.

The second column specifies the value sent as REF01.

The third column specifies the maximum length of REF02.

The fourth column contains the information sent in REF03 which is qualified in two cases by the contents of REF02.

WODEX uses this REF segment in conjunction with the following N1 to locate the well.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

REQ	REF01	REF02	REF03
R			SURFACE LOCATION METHOD CODE
			For this use of REF, REF01 qualifies REF03 as follows: 00 = Other 01 = Quarter - Quarter - Section - Township - Range - Meridian 02 = Offshore Area and Block 03 = Latitude and Longitude 04 = Metes and Bounds 05 = X and Y Coordinate System 06 = Texas Survey

REQ	REF01	REF02	REF03
	S1	2	This is the Surface Location which has a maximum length of 25 characters.
O			BOTTOM HOLE LOCATION METHOD CODE
			For this use of REF, REF02 qualifies REF03 using the same values as listed for Surface Location Method Code.
	B1	2	This is the Bottom Hole Location which has a maximum length of 25 characters.
O			DIRECTIONAL INDICATOR
			REF02 is a code with the following definitions: V = Vertical, D = Directional, H = Horizontal, E = Extended Reach
	D1	1	Not Used

FINAL

Segment: **N1** Name
Level: Detail
Loop: PTD/N1 **Repeat:** 5
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name and code
Syntax: 1 **R0203**
 At least one of N102 or N103 is required.
 2 **P0304**
 If either N103 or N104 is present, then the other is required.
Comments: A This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	M ID 2/2
<p>Use the following API assigned values pending ASC X12 Data Maintenance:</p> <ul style="list-style-type: none"> F1 Company Owned Oil Field F2 Energy Information Administration (Department of Energy) Owned Oil Field MS Bureau of Land Management (Minerals Management Service) Property Unit R4 Regulatory (State) District R5 Regulatory (State) Entity RV Reservoir MS Bureau of Land Management (Minerals Management Service) Property Unit WN Company Assigned Well Number <p>PP Property</p>			
N102	93	Name Free-form name.	C AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
<p>32 Assigned by Property Operator Used when N101 contains "F1", "F2", "PP", "RV" or "WN".</p> <p>SI Standard Industry Code (SIC)</p>			
N104	67	Identification Code Code identifying a party or other code.	C AN 2/17

Segment: **QTY** Quantity
Level: Detail
Loop: PTD/QTY **Repeat:** >1
Usage: Optional
Max Use: 1
Purpose: To specify quantity information.
Notes: **Required by WODEX**

Within this WODEX implementation, these are two distinct uses for the QTY loop. In order to convey these two uses, the entire QTY loop has been artificially duplicated. This first QTY loop deals with perforation intervals.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
QTY01	673	Quantity Qualifier Code specifying the type of quantity.	M ID 2/2
<p>00 Numbering Sequence</p>			
QTY02	380	Quantity Numeric value of quantity.	M R 1/15
<p>Use the value "0".</p>			
QTY03	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
<p>Not Used by WODEX</p>			

Segment: MEA Measurements
Level: Detail
Loop: PTD/PTY
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

- Syntax:**
- 1 **R03050608**
At least one of MEA03, MEA05, MEA06 or MEA08 is required.
 - 2 **C0304**
If MEA03 is present, then MEA04 is required.
 - 3 **C0504**
If MEA05 is present, then MEA04 is required.
 - 4 **C0604**
If MEA06 is present, then MEA04 is required.
 - 5 **L07030506**
If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 are required.
 - 6 **E0803**
Only one of MEA08 or MEA03 may be present.

Semantic: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: A When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: One MEA segment is required to transmit a log zero point reference. There are ten optional uses for this MEA segment.

The chart following MEA10 details the eleven possible uses for this MEA segment.

The first column indicates the requirement of each loop: R=Required, C=Conditional, O=Optional.

The second value specifies the value sent as MEA02.

The third column specifies the maximum length of MEA03.

The fourth column contains the value sent as MEA04 and the definition of that value in parentheses.

WODEX uses this MEA segment to identify various depth measurements.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MEA01	737	Measurement Reference ID Code	O ID 2/2 Code identifying the broad category to which a measurement applies
MEA02	738	Measurement Qualifier	O ID 1/3 Code identifying a specific product or process characteristic to which a measurement applies
MEA03	739	Measurement Value	C R 1/10 The value of the measurement.
MEA04	355	Unit or Basis for Measurement Code	C ID 2/2 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
MEA05	740	Range Minimum	C R 1/10 The value specifying the minimum of the measurement range.
Not Used by WODEX			
MEA06	741	Range Maximum	C R 1/10 The value specifying the maximum of the measurement range.
Not Used by WODEX			
MEA07	935	Measurement Significance Code	O ID 2/2 Code used to benchmark, qualify or further define a measurement value.
Not Used by WODEX			
MEA08	936	Measurement Attribute Code	C ID 2/2 Code used to express an attribute response when a numeric measurement value cannot be determined.
Not Used by WODEX			
MEA09	752	Surface/Layer/Position Code	O ID 2/2 Code indicating the product surface, layer or position that is being described.
MEA10	1373	Measurement Method or Device	C ID 2/4 The method or device used to record the measurement

REQ	MEA02/09	MEA03	MEA04
R	LOG ZERO POINT REFERENCE		
	For this MEA segment, transmit the value "ZP" (Log Zero Point Reference) in MEA01. There are five possible values (listed below) for MEA02 or MEA09.		
	KB (Kelly Bushing)	5	FT (Foot)
	Use "KB" in MEA09 pending ASC X12 Data maintenance		
	GLE (Ground Level Elevation)	5	FT (Foot)
	Use "GLE" in MEA02.		

REQ	MEA02/09	MEA03	MEA04
	CH (Casing Head Flange)	5	FT (Foot)
	Use "CH" in MEA09 pending ASC X12 Data Maintenance		
	GF (Rig Floor)	5	FT (Foot)
	Use "GF" in MEA09 pending ASC X12 Data Maintenance		
	SU (Sub-Sea)	5	FT (Foot)
	Use "SU" in MEA09 pending ASC X12 Data Maintenance		
O	GROUND LEVEL ELEVATION		
	GLE	5	FT (Foot)
O	WATER DEPTH		
	WDE	5	FT (Foot)
O	MAXIMUM TOTAL DEPTH		
	MTD	5	FT (Foot)
O	MAXIMUM TRUE VERTICAL DEPTH		
	TVD	5	FT (Foot)
O	PLUG BACK TOTAL DEPTH		
	PBD	5	FT (Foot)
O	PERFORATION TOP DEPTH		
	TDP	5	FT (Foot)
O	PERFORATION BOTTOM DEPTH		
	BDP	5	FT (Foot)
O	PERFORATION FEET OPEN		
	PFO	5	FT (Foot)

Segment: REF Reference Numbers
Level: Detail
Loop: PTD/PTY
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax: 1 R0203
 At least one of REF02 or REF03 is required.

Notes: There are three optional uses for this REF segment.

The first column indicates the requirement of each loop:
 R=Required, C=Conditional, O=Optional.

The second column specifies the value sent in REF02.

The third column specifies the maximum length of REF02.

The fourth column contains a list of code values for REF02.

WODEX uses this REF segment to identify number of
 perforated intervals, whether or not they are continuous
 and type of perforation.

NOTE: SHOULD THIS BE A NEW SEGMENT?

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

Not Used by WODEX

REQ	REF01	REF02	CODES
O	PERFORATION INTERVAL(S)		
	IP	2	None
O	PERFORATION CONTINUITY INDICATOR		
	C5	1	Y = Yes, N = No
O	PERFORATION TYPE		
	TP	1	B = Bullet, J = Jet, C = Combination, H = Open Hole, M = Miscellaneous

Segment: QTY Quantity
Level: Detail
Loop: PTD/QTY **Repeat:** >1
Usage: Optional
Max Use: 1
Purpose: To specify quantity information.

Notes: Within this WODEX implementation, there two distinct uses for the QTY loop. In order to convey these two uses, the entire QTY loop has been artificially duplicated. This second QTY loop deals with downhole tubulars.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
QTY01	673	Quantity Qualifier Code specifying the type of quantity. 41 Number of Batches	M ID 2/2
QTY02	380	Quantity Numeric value of quantity. This should contain the values "01 - 13".	M R 1/15
QTY03	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Not Used by WODEX	O ID 2/2

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

Syntax: 1 C0403
If PID04 is present, then PID03 is required.
 2 R0405
At least one of PID04 or PID05 is required.
 3 C0703
If PID07 is present, then PID03 is required.
 4 C0803
If PID08 is present, then PID03 is required.

Semantic: 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 2 PID04 should be used for industry-specific product description codes.
 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item. A "N" indicates it does not apply. Any other value is indeterminate.

Comments: A If PID01 = "F", then PID05 is used. If PID01 = "S", then PID04 is used. If PID01 = "X", then both PID04 and PID05 are used.
 B Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 C PID07 specifies the individual code list of the agency specified in PID03.

Notes: WODEX uses this PID segment to identify the grade of the following tubular goods in the well.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PID01	349	Item Description Type Code indicating the format of a description. S Structured (From Industry Code List)	M ID 1/1
PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic CP Coupling Use API assigned value pending ASC X12 Data Maintenance.	O ID 2/3

		38 Grade Tubular Grade	
PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values.	C ID 2/2
PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic.	C AN 1/12
When "CP" is used in PID02, use codes for Tubular Coupling from API Bulletin 5C3 4th Edition, February 1, 1985.			
When "38" is used in PID02, use codes for Tubular Grade from API Bulletin 5C3 4th Edition, February 1, 1985.			
PID05	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80
Not Used by WODEX			
PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described.	O ID 2/2
Not Used by WODEX			
PID07	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier.	O AN 1/15
PID08	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response.	O ID 1/1

Segment: MEA Measurements
Level: Detail
Loop: PTD/QTY
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights
 (See Figures Appendix for example of use of C001.)
Syntax: 1 R03050608
 At least one of MEA03, MEA05, MEA06 or MEA08 is required.
 2 C0304
 If MEA03 is present, then MEA04 is required.
 3 C0504
 If MEA05 is present, then MEA04 is required.
 4 C0604
 If MEA06 is present, then MEA04 is required.
 5 L07030506
 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 are required.
 6 E0803
 Only one of MEA08 or MEA03 may be present.
Semantic: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments: A When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: There are four optional uses for this MEA segment detailed in the chart following MEA10.
 The first column indicates the requirement of each loop: R=Required, C=Conditional, O=Optional.
 The second column specifies the value sent as MEA02.
 The third column specifies the maximum length of MEA03.
 The fourth column contains the value sent as MEA04 and the definition of that value in parentheses.
 WODEX uses this MEA segment to specify some tubular particulars and also the top of the liner.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies	O ID 2/2
Not Used by WODEX			
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies	O ID 1/3
MEA03	739	Measurement Value The value of the measurement.	C R 1/10
MEA04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
MEA05	740	Range Minimum The value specifying the minimum of the measurement range.	C R 1/10
Not Used by WODEX			
MEA06	741	Range Maximum The value specifying the maximum of the measurement range.	C R 1/10
Not Used by WODEX			
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value.	O ID 2/2
Not Used by WODEX			
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined.	C ID 2/2
Not Used by WODEX			
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described.	O ID 2/2
Not Used by WODEX			
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	C ID 2/4
Not Used by WODEX			

REQ	MEA02	MEA03	MEA04
O	CASING/LINER TUBING DEPTH		
	PDE	5	FT (Foot)
O	PHYSICAL DESCRIPTION OUTER DIAMETER		
	POD	5	ED (Inches)
O	PHYSICAL DESCRIPTION WEIGHT		
	PWE	5	P2 (Pounds per Foot)
O	LINER TOP DEPTH		
	LTD	5	FT (Foot)

Segment: **PKG** Marking, Packaging, Loading

Level: Detail

Loop: PTD/QTY

Usage: Optional

Max Use: 25

Purpose: To describe marking, packaging, loading and unloading requirements.

Syntax: **1 R040506**
At least one of PKG04, PKG05 or PKG06 is required.

2 C0401
If PKG04 is present, then PKG01 is required.

3 C0501
If PKG05 is present, then PKG01 is required.

Semantic: **1** PKG04 should be used for industry-specific packaging description codes.

Comments: **A** Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.

B If PKG01 = "F", then PKG05 is used. If PKG01 = "S", then PKG04 is used. If PKG01 = "X", then both PKG04 and PKG05 are used.

C Use PKG03 to indicate the organization that publishes the code list being referred to.

D Special marking or tagging data can be given in PKG05 (Description).

Notes: **WODEX uses this PKG segment to identify the various types of tubular goods in a particular well.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PKG01	349	Item Description Type Code indicating the format of a description.	C ID 1/1
S Structured (From Industry Code List)			
PKG02	753	Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described.	O ID 1/5
01 Casing/Liner/Tubing Type Use API assigned value pending ASC X12 Data Maintenance.			
PKG03	559	Agency Qualifier Code Code identifying the agency assigning the code values.	C ID 2/2
AP American Petroleum Institute			

PKG04 754 Packaging Description Code C AN 1/7

A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.

Use the following WODEX codes:

- C1 Conductor Casing
- C2 Structural Casing
- C3 Surface Casing
- C4 Intermediate Casing
- C5 Production Casing
- L1 Liner 1
- L2 Liner 2
- L3 Liner 3
- L4 Liner 4
- T1 Tubing String 1
- T2 Tubing String 2
- T3 Tubing String 3
- T4 Tubing String 4

PKG05 352 Description C AN 1/80
A free-form description to clarify the related data elements and their content.

Not Used by WODEX

PKG06 400 Unit Load Option Code O ID 2/2
Code identifying loading or unloading a shipment

Not Used by WODEX

Segment: CTT Transaction Totals

Level: Summary

Loop: _____

Usage: Mandatory

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax: 1 C0304
If CTT03 is present, then CTT04 is required.

2 C0506
If CTT05 is present, then CTT06 is required.

Comments: A This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTT01	354	Number of Line Items	M NO 1/6
		Total number of line items in the transaction set.	
CTT02	347	Hash Total	O R 1/10
		Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the leftmost digits if the sum is greater than the maximum size of the hash total of the data element.	
		Example:	
		-.0018 First occurrence of value being hashed.	
		.18 Second occurrence of value being hashed.	
		1.8 Third occurrence of value being hashed.	
		18.01 Fourth occurrence of value being hashed.	
		1855 Hash total prior to truncation.	
		855 Hash total after truncation to three-digit field.	
		Not Used by WODEX	
CTT03	81	Weight	O R 1/10
		Numeric value of weight.	
		Not Used by WODEX	
CTT04	355	Unit or Basis for Measurement Code	C ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Not Used by WODEX	
CTT05	183	Volume	O R 1/8
		Value of volumetric measure.	
		Not Used by WODEX	
CTT06	355	Unit or Basis for Measurement Code	C ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Not Used by WODEX	

CTT07 352 **Description** O AN 1/80
A free-form description to clarify the related data elements and their content.
Not Used by WODEX

FINAL

Segment: SE Transaction Set Trailer
Level: Summary
Loop: ____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
Comments: A SE is the last segment of each transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SE01	96	Number of Included Segments	M NO 1/10 Total number of segments included in a transaction set including ST and SE segments.
SE02	329	Transaction Set Control Number	M AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

FINAL

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Tips *These buttons help you find, view and use ACCESSRAMP™ text*

Bookmarks/Thumbnails



When bookmarks are onscreen, click on triangles to show or hide subtopics.



When bookmarks are onscreen, a double-click on one of these brings its topic to the page window.



Closes thumbnails or bookmarks and displays the page window only.



Displays bookmarks and a page.



Displays thumbnails and a page.

Page Viewing



Magnifies, reduces the page: click the button, then click within the document. Or click and drag to enlarge an area.



When part of the page fills the window, the hand icon drags the page so that the rest can be shown.

Text Copying



Selects text to copy to the clipboard.

Page 1 of 5, click this button for page 2 

Acrobat™

Tips *Use these buttons to quickly move from page to page and to set the page size*

Page Turning



Displays the first page.



Displays the previous page.



Displays the last page.



Displays the next page.



Displays the previous page viewed.



Returns from previous pages.

Page Size Setting



Sets the page view to 100%.



Displays the full width of the page within the window.



Displays the entire page within the window.



Click this button for page 1

Page 2 of 5

Click this button for page 3



Acrobat™

Tips *ACCESSRAMP™ bookmarks work like a table of contents*

Collapsing and expanding topics

Triangle icons in the bookmark area let you expand or collapse subtopics by clicking. A triangle that faces down indicates a topic is expanded. A triangle that faces to the right indicates a topic is collapsed.

To make scrolling the bookmark area easier, collapse all topics.

As you move the cursor past the border between the bookmark area and the page window a double arrow appears. Drag the double arrow to resize the bookmark area.

Finding EDI segments in ACCESSRAMP

Most ACCESSRAMP titles are based upon ASC X12 transaction sets or UN/EDIFACT messages. The hierarchy of these EDI standards creates a natural way to locate a message's interrelated parts.

- In each message listing, there is a column of page numbers to the left of the segment identifier. Click on a page number and the page window changes to the selected segment.
- You can also use the bookmarks for the same purpose.



Click this button for page 2

Page 3 of 5

Click this button for page 4



Acrobat™

Tips *Tips for opening multiple documents and jumping to specific pages*

Opening multiple documents

You might want to have more than one ACCESSRAMP document open at one time. For example, a data element dictionary and one or more transaction sets can be open for instant cross access.

From within ACCESSRAMP, choose File|Open to open another document. Files that can be read by ACCESSRAMP have the file extension *.PDF.

Use the Window menu to switch between the documents that are open.

Going to a specific page

In addition to using bookmarks and the message listing, there are two additional ways to get to a specific page.

- Click the page number box at the bottom of the window. Type the number of the page in the dialog box, then click OK.
- Click and hold the vertical scroll box; as you move the scroll box, a page number appears to the left of the scroll bar. Stop dragging the scroll box when it reaches the page you want.



Click this button for page 3

Page 4 of 5

Click this button for page 5



Acrobat™

Tips *Magnification and manipulating the size of the onscreen image*

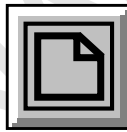
Changing page magnification

The magnification box is at the bottom of the page window next to the page number box. Click and hold to select a preset percentage of magnification.

Selecting "Other..." displays a dialog box. By typing in a number (between 12 and 800) you can set any magnification from 12% to 800%.

You can preset ACCESSRAMP to open at any desired magnification by using the "Preferences..." dialog box under the "Edit" menu.

Fitting the page to your screen



When the displayed image is too small or too large, click this button. The page will fill the window at the maximum magnification possible.



[Click this button for page 4](#)

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