



TOBIN InfoBase Data Distribution Tape Format

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ABSTRACT

The TOBIN InfoBase Data Distribution tape, as available from Tobin International, Ltd, provides a graphical representation of TOBIN Survey, Wellspot, Stratigraphic Marker, Property, and Culture information. This document describes the data format of the magnetic tape supplied by Tobin International, Ltd. This information is intended for a technical audience, i.e. a system analyst or experienced programmer.

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- Appendix A 1.3 (State Codes) is contained in [tobin_v13state.doc](#) * _
- Appendix B 1.5 (County Codes) is contained in [tobin_v15cnty.doc](#) * _
- Appendix C 1.4 (TOBIN Meridian Codes) is contained in [tobin_v14tobinmc.doc](#) * _
- Appendix D 1.2 (TOBIN Well Codes) is contained in [tobin_well_codes.doc](#) * _
- Appendix E 1.12 (Culture Codes) is contained in [tobin_culture_codes.doc](#) * _
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1. Distribution Media

TOBIN InfoBase data sets are available on various magnetic media and CD-ROM for mainframe, workstation, and DOS based systems. Refer to product literature for availability.

2. Data Representation

TOBIN InfoBase records are made up entirely of printable ASCII characters.

Numeric fields will be filled with leading zeroes if necessary.

Text fields will be blank-filled and left justified.

X-Y coordinate pairs representing locations on the surface of the earth will be 17-character numeric fields of the form "XXXxxxxxYYyyyyyy", where XXX.xxxxxx is the longitude west, and YY.yyyyyy the latitude north. So, for example, the point 88.444111 west longitude and 33.555000 north latitude would be represented "08844411133555000".

Dates will be 8-character numeric fields of the form "YYYYMMDD", where YYYY is the year, MM is the month ("01" is January, "12" is December, etc.), and DD is the day of the month from "01" to "31".



3. Record Formats

Each record in the TOBIN InfoBase begins with two 1 character numeric fields. The first, in Column 1, is the Data Type; the second, in Column 2, is the Record Type.

These two fields act as a control for the interpretation of TOBIN InfoBase records. Each entity described in the TOBIN InfoBase consists of a sequential group of records all having the same Data Type, the entire group beginning with one record of Record Type 0.

3.1 Data Types

The Data Type field can take any value from "0" to "5", and specifies what types of entities and information are being described in the group of records. The valid Data Types are listed in the table below.

- Data Type 0 Survey Data. Primarily block, township, and section boundaries.
- Data Type 1 Wellspot Data. Locations of and information about wells.
- Data Type 2 Abstract Data. Boundaries of and other information regarding pieces of real property. Also includes data for Bay Tracts and Junior (Conflict) Survey.
- Data Type 3 Culture Data. All other geographic data available from maps.
- Data Type 4 Stratigraphic Data. Stratigraphic marker (tops) information about wells.
- Data Type 5 Lease Data. Boundaries of and other information regarding Leases.
- Data Type 6 Tract Data. Boundaries of and other information regarding Lease Tracts

3.2 Record Types

The Record Type field can take values from "0" to "9", and specifies what kind of information is contained in the record, and the format of the information. Currently, Record Types 6 and 8 are unused, so those values are illegal. The valid Record Types are as follows.

- Record Type 0 Header Record, page 1. Each entity in the TOBIN InfoBase consists of one record of Record Type 0, followed possibly by one or more other records of other Record Types. All records of Record Type 0 have similar formats, which differ slightly depending on the Data Type of the record. Some Data Types require more header information than can fit conveniently on one card. For these Data Types, Record Types 1 thru 5 are provided as a continuation of the Header. Records of Record Types 1 thru 5 have different formats depending on their Data Type. All these formats are described in detail in the sections following.
- Record Type 1 Header Record, page 2.
- Record Type 2 Header Record, page 3.
- Record Type 3 Header Record, page 4.
- Record Type 4 Header Record, page 5.
- Record Type 5 Annotation Record. Writing on the map. All records of Record Type 5 have the same format, which is described in detail in the sections following.
- Record Type 7 Unformatted Text Record. This Record Type allows the database to hold text fields of essentially unlimited length. All records of Record Type 7 have the same format, which is described in detail in the sections following.
- Record Type 9 Latitude-Longitude Coordinate Record. Each Record of Record Type 9 can hold up to seven X-Y coordinate pairs, specifying locations on the Earth's surface to an accuracy of millionths of degrees (i.e., six places to the right of the decimal). All records of Record Type 9 have the same format, which is described in detail in the sections following.

3.3 Survey Data (Data Type 0)

Survey Data describes the boundaries of land survey entities such as blocks (outside of Texas, townships), sections, tracts, plats, and lots. Each such entity in the TOBIN InfoBase consists of one



record of Record Type 0, possibly followed by one or more Annotation Records (Record Type 5), and a sufficient number of Coordinate Records (Record Type 9) to specify the boundary of the entity.

3.3.1 Survey Data, Header Page 1 (Data Type 0, Record Type 0)

Each record of Data Type 0 and Record Type 0 has the following format.

Col 1 Data Type. Always "0", indicating that this record contains Survey Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a Header.

Col 3-4 Class. A 2-digit code that specifies what type of entity (block, section, etc.) this record is describing. The following Class codes have been defined.

- Class 05 Meridian Boundary.
- Class 06 Survey Boundary.
- Class 10 Township Boundary.
- Class 11 Block Boundary.
- Class 12 Offshore Area Boundary
- Class 13 Offshore Block Boundary
- Class 17 Junior Survey Section Boundary
- Class 18 Junior Survey Block Boundary
- Class 20 Section Boundary.
- Class 24 Rural Subdivision Boundary
- Class 25 Texas League Boundary
- Class 26 Texas Labor Boundary
- Class 30 Tract Boundary.
- Class 35 Plat Boundary.
- Class 40 Lot Boundary.
- Class 80 Boundary of Unsurveyed Area.
- Class 90 Monument.
- Class 95 Benchmark.
- Class 99 Culture Feature Boundary.

Col 5-8 Reserved.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance,

"J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system.

(See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance,

"D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form:

In Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); In both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" (corresponding to 27 north through 32 north).



Col 61-76 Section Number. A 16-character field containing the number or name of the section, if the entity being described is a section or is contained within a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. The State Code for Texas is "42". Refer to Appendix A for a list of API state codes.

Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose the entire entity being described.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose the entire entity being described.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the boundary of the entity being described.

Col 127-132 Reserved.

3.3.2 Survey Data, Annotation Records (Data Type 0, Record Type 5)

Each record of Data Type 0 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "0", indicating that this record contains Survey Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.

Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map. If the text location calculation programs used in generating the InfoBase data could not fit the text inside the boundaries of the entity being annotated (either because the text height was set too large for the size of the polygon, or because the text string itself was exceptionally long) this field will be set to "00"; in this case only, the Text Location field is guaranteed to contain a point within the borders of the entity being described.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field. All characters in the text will be printable ASCII characters.

3.3.3 Survey Data, Coordinate Records (Data Type 0, Record Type 9)

Wherever records of Record Type 9 occur, any number can occur together. Each record of Data Type 0 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "0", indicating that this record contains Survey Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "^" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.



Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.

Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.

Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

3.4 Wellspot Data (Data Type 1)

Wellspot Data describes the location of and other information regarding wellbores. Each such entity in the TOBIN InfoBase consists of one record of Record Type 0, one record of Record Type 1, one record of Record Type 2, one record of Record Type 3, one record of Record Type 4, together making up a 5-page Header.

3.4.1 Wellspot Data, Header Page 1 (Data Type 1, Record Type 0)

Each record of Data Type 1 and Record Type 0 has the following format.

Col 1 Data Type. Always "1", indicating that this record contains Wellspot Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a 5-page Header.

Col 3-8 Well Type. A 6-character field specifying the type of well being described. Typical values are "O" for Oil, "G" for Gas, "B" for Both, "A" for Abandoned, "W" for Water, "D" for Dry, etc. Refer to Appendix D for a list of Well Type codes.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right.

In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" (corresponding to 27 north through 32 north).



Col 61-76 Section Number. A 16-character field containing the number or name of the section in which the well being described is located.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 Location. A 17-digit X-Y coordinate pair representing the calculated location of the well being described. The field will be blank-filled if the location is unknown.

Col 104-117 API Number. The 14-digit API number of the well being described.

Col 118-131 Old API Number. Another 14-digit API number of the well being described, if it used to have a different number.

Col 132 Reserved.

3.4.2 Wellspot Data, Header Page 2 (Data Type 1, Record Type 1)

Each record of Data Type 1 and Record Type 1 has the following format.

Col 1 Data Type. Always "1", indicating that this record contains Wellspot Data.

Col 2 Record Type. Always "1", indicating that this record is page 2 of a 5-page Header.

Col 3-50 Operator Name. The name of the operator of the well being described, abbreviated if necessary to fit this 48-character field.

Col 51-82 Property Name. A 32-character field containing the name of the piece of real estate on which the well being described is located.

Col 83-98 Property ID. A 16-character field.

Col 99-106 Completion Date. The date on which the drilling of the well was completed.

Col 107-116 Permit Number. A 10-character field.

Col 117-121 Depth. A 5-digit numeric field containing the depth of the well in feet. Values range from "00000" to "99999".

Col 122-126 Elevation. A 5-digit numeric field containing the elevation of the well in feet, typically measured from sea level. Values range from "00000" to "99999".

Col 127-128 Elevation Type. A 2-character field specifying the point on the well to which the elevation was measured. Typical values are "KB" for Kelly Bushing, "RT" for Rotary Table, "GR" for Ground, etc.

Col 129-132 Reserved.

3.4.3 Wellspot Data, Header Page 3 (Data Type 1, Record Type 2)

Each record of Data Type 1 and Record Type 2 has the following format.

Col 1 Data Type. Always "1", indicating that this record contains Wellspot Data.

Col 2 Record Type. Always "2", indicating that this record is page 3 of a 5-page Header.

Col 3-82 Location Description. A full description string specifying in any of a huge number of formats the location of the well being described. The field is 80 characters in length.

Col 83-90 Well Number. An 8-digit number.

Col 91-98 Field Number. An 8-character field containing the number of the oil or gas field in which the well being described is located.

Col 99-130 Field Name. A 32-character field containing the name of the oil or gas field in which the well being described is located.

Col 131-132 Reserved.

3.4.5 Wellspot Data, Header Page 4 (Data Type 1, Record Type 3)

Each record of Data Type 1 and Record Type 3 has the following format.

Col 1 Data Type. Always "1", indicating that this record contains Wellspot Data.

Col 2 Record Type. Always "3", indicating that this record is page 4 of a 5-page Header.

Col 3-82 Bottom Hole Location Description.

Col 83-88 Operator Number.



Col 89-91 Geological Province Code.

Col 92-97 True Vertical Depth.

Col 98-105 Spud Date.

Col 106-113 Formation at Total Depth.

Col 114-130 Bottom Hole Location. A 17-digit X-Y coordinate pair representing the calculated bottom hole location of the well being described. The field will be blank-filled if the location is unknown.

Col 131-132 Reserved.

3.4.6 Wellspot Data, Header Page 5 (Data Type 1, Record Type 4)

Each record of Data Type 1 and Record Type 4 has the following format.

Col 1 Data Type. Always "1", indicating that this record contains Wellspot Data.

Col 2 Record Type. Always "4", indicating that this record is page 5 of a 5-page Header.

Col 3-8 Reserved.

Col 9-14 Water Depth.

Col 15-18 Platform.

Col 19-26 Status. A 8-character field which contains the status code for the well.

Col 27-34 Status Date. A 8-character field which contains the date of the status value.

Col 35-42 Total Depth Date. A 8-character field which contains the total depth date of the well.

Col 43-102 Data Source ID. A 60 character field which contains the well identification key of the source.

In general, this field is blank. It may contain the API number or other values such as the Offshore Oil Scouts Association key.

3.5 Abstract Data (Data Type 2)

Abstract Data describes pieces of real property along with bay tract and junior (conflict) survey. Each entity in the TOBIN InfoBase will consist of one record of Record Type 0, followed possibly by one or more Annotation Records (Record Type 5), sufficient Text Records (Record Type 7) to contain the full legal description of the piece of property being described, and sufficient Coordinate Records (Record Type 9) to specify the boundary of the piece of property being described. Additional information regarding the property will be contained in a record of Record Type 1 (Header page 2) and possibly in a record of Record Type 2 (Header page 3).

3.5.1 Abstract Data, Header Page 1 (Data Type 2, Record Type 0)

Each record of Data Type 2 and Record Type 0 has the following format.

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a Header.

Col 3-4 Class. A 2-digit code that specifies what type of entity (abstract, bay tract, junior survey abstract) this record is describing.

The following Class codes have been defined.

- Class Blank Abstract Boundary.
- Class 15 Bay Tract Abstract Boundary.
- Class 16 Junior Survey Abstract Boundary.

Col 5-8 Reserved.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left



justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" (corresponding to 27 north through 32 north).

Col 61-76 Section Number. A 16-character field containing the number or name of the section in which the piece of real property being described is located, if it is contained in a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose the entire piece of real property being described. If the property is not land, then this value is zero.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose the entire piece of real property being described. If the property is not land, then this value is zero.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the boundary of the piece of real property being described. If the property is not land, then this value is zero.

Col 127-132 Reserved.

3.5.2 Abstract Data, Header Page 2 (Data Type 2, Record Type 1)

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "1", indicating that this record is page 2 of a Header.

Col 3-8 Reserved.

Col 9-16 Abstract Number. An 8-character field specifying the abstract number for a piece of land.

Col 17-24 Tract Number. An 8-character field specifying the tract number for a piece of land.

Col 25-32 Lot Number. An 8-character field specifying the lot number for a piece of land.

Col 33-40 Sub-Lot Number. An 8-character field specifying the sub-lot number for a piece of land.

Col 41-56 Other. A 16-character field specifying any additional identification necessary.

Col 57-72 Property Account Number. A 16-character field specifying the tax roll account number for the property.

Col 73-122 Property Owner Name. A 50-character field specifying the property owner's name.

Col 123-132 Reserved.

3.5.3 Abstract Data, Header Page 3 (Data Type 2, Record Type 2)

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "2", indicating that this record is page 3 of a Header.

Col 3-8 Reserved.

Col 9-33 Address Field 1. A 25-character field specifying part of the owner's address. Normally blank or holding 'Care of' name.

Col 34-58 Address Field 2. A 25-character field specifying part of the owner's address. Normally holds the street address or P. O. Box number.

Col 59-83 Address Field 3. A 25-character field specifying part of the owner's address. Normally holds the city, state, and ZIP code.



Col 84-95 Acreage. A 12-character field specifying the acreage of the property. Data is in the form of NNNNNNNN.NNN acres. Field is blank if the property is not land.

Col 96-132 Reserved.

3.5.4 Abstract Data, Annotation Records (Data Type 2, Record Type 5)

Each record of Data Type 2 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.

Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field. All characters in the text will be printable ASCII characters.

3.5.5 Abstract Data, Text Records (Data Type 2, Record Type 7)

Wherever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 2 and Record Type 7 has the following format. Note that this format is common to all records of Record Type 7, regardless of Data Type.

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "7", indicating that this record is a Text Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Text. Up to 126 characters of free-form text, left justified within the field. All characters in the text will be printable ASCII characters.

3.5.6 Abstract Data, Coordinate Records (Data Type 2, Record Type 9)

Wherever records of Record Type 9 occur, any number can occur together.

Each record of Data Type 2 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "2", indicating that this record contains Abstract Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "^" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.

Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.



Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.

Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

3.6 Culture Data (Data Type 3)

Culture Data describes the physical qualities of the Earth's surface, including water and water-courses, land use information, roads, buildings, and other man-made objects, and in general any information usually available from maps. Each such entity in the TOBIN InfoBase consists of one record of Record Type 0, possibly followed by one or more Annotation Records (Record Type 5), possibly followed by one or more Text Records (Record Type 7), and sufficient Coordinate Records (Record Type 9) to describe the location or boundary or course of the entity being described.

3.6.1 Culture Data, Header Page, Invariant part (Data Type 3, Record Type 0, Col 1-85)

The first 85 characters of each record of Data Type 3 and Record Type 0 have the following format.

Col 1 Data Type. Always "3", indicating that this record contains Culture Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 (the only page for this Data Type) of a Header.

Col 3-4 Class. A 2-digit code that specifies the Class of the entity being described.

Col 5-6 Sub-Class. A 2-digit code that specifies the Sub-Class of the entity being described.

For a list of the Class and Sub-Class codes that have been defined, refer to Appendix E. For a full description of the nature of the entities represented by each Class and Sub-Class combination, refer to the document "Culture Files from Tobin International, Ltd: An Introduction and User's Guide to TOBIN's Culture Product".

Col 7-8 Point Type. A 2-digit code specifying the kind of location information associated with the entity being described. The following values for Point Type are defined at this time.

- Point Type 00 Single Polygon. Used for areas that are known to be single closed polygons; e.g. lakes, large buildings.
- Point Type 01 Possibly Multiple Polygons. Used for areas that may have several "parts", and so cannot be represented as Single Polygons; e.g. townships, cities, Indian Reservations.
- Point Type 10 Area of Undetermined Extent. Used for areas whose exact borders are unknown, but which can be specified by one or more representative points known to be within the area; e.g. cemeteries, golf courses.
- Point Type 30 Single Line. Used for entities that consist of a single line; e.g. minor roads, small dams, fences.
- Point Type 32 Two Lines. Used for entities that consist of two lines (and perhaps the area between them); e.g. rivers whose direction of flow is unspecified, divided highways.
- Point Type 40 Single Directed Line. Used for entities that consist of a single line with an implied direction; e.g. streams, ski lifts.
- Point Type 42 Two Directed Lines. Used for entities that consist of two lines (and perhaps the area between them) with implied direction; e.g. rivers whose direction of flow is specified.
- Point Type 70 Single Point. Used for entities whose location can be considered a single point within the accuracy of the database; e.g. radio transmission towers, benchmarks, small buildings.



Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" (corresponding to 27 north through 32 north).

Col 61-76 Section Number. A 16-character field containing the number or name of the section, if the entity being described is a section or is contained within a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 A 1-character field containing a code designating what InfoBase revision is represented by this data. The field contains a blank for culture data generated before 1991, an "A" for data generated from January 1991 through May 1991, or a "B" for data generated in June 1991 or thereafter.

3.6.2 Culture Data, Header Page, Variable part (Data Type 3, Record Type 0, Col 86-132)

3.6.2.1 Polygon, Line, and Multi-Point Entities

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose all the points comprising the entity being described.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose all the points comprising the entity being described.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the entity being described.

Col 127-132 Reserved.

3.6.2.2 Single-Point Entities

Col 87-103 Location. A 17-digit X-Y coordinate pair representing the location of the single point entity being described.

Col 104-132 Reserved.

3.6.3 Culture Data, Annotation Records (Data Type 3, Record Type 5)

Each record of Data Type 3 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "3", indicating that this record contains Culture Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.



Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field. All characters in the text will be printable ASCII characters.

3.6.4 Culture Data, Text Records (Data Type 3, Record Type 7)

Whenever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 3 and Record Type 7 has the following format. Note that this format is common to all records of Record Type 7, regardless of Data Type.

Col 1 Data Type. Always "3", indicating that this record contains Culture Data.

Col 2 Record Type. Always "7", indicating that this record is a Text Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Text. Up to 126 characters of free-form text, left justified within the field. All characters in the text will be printable ASCII characters.

3.6.5 Culture Data, Coordinate Records (Data Type 3, Record Type 9)

Whenever records of Record Type 9 occur, any number can occur together.

Each record of Data Type 3 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "3", indicating that this record contains Culture Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "^" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.

Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.

Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.



Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

3.7 Stratigraphic Marker Data (Data Type 4)

Stratigraphic Marker or top data

3.7.1 Stratigraphic Marker Data, Header Page 1(Data Type 4, Record Type 0)

Each record of Data Type 4 and Record Type 0 has the following format.

Col 1 Data Type. Always "4", indicating that this record contains Stratigraphic Marker Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a 1-page Header.

Col 3-16 API Number. The 14-digit API number of the well for which these marker are reported.

Col 17-20 Data Source Code. The source code of the data.

Col 21-23 Stratigraphic Table Number.

Col 24-32 Stratigraphic Numeric Code.

Col 33-36 Biozone.

Col 37-40 Source of Interpretation.

Col 41-46 Top of marker, measured depth.

Col 47-52 Base of marker, measured depth.

Col 53-58 Top of marker, true vertical depth.

Col 59-64 Base of marker, true vertical depth.

3.8 Lease Data (Data Type 5)

Lease Data describes oil and gas leases. Each entity in the TOBIN InfoBase will consist of one record of Record Type 0, followed possibly by one or more Annotation Records (Record Type 5), sufficient Text Records (Record Type 7) to contain the full legal description of the lease being described, and sufficient Coordinate Records (Record Type 9) to specify the boundary of the lease being described. Additional information regarding the lease will be contained in a record of Record Type 1 (Header page 2), Record Type 2 (Header page 3), and possibly in a record of Record Type 3 (Header page 4).

3.8.1 Lease Data, Header Page 1 (Data Type 5, Record Type 0)

Each record of Data Type 5 and Record Type 0 has the following format.

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a Header.

Col 3 Lease Type. Valid values are:

- Blank or 0 - Unknown
- 1 - Federal
- 2 - State
- 3 - Fee
- 4 - Indian

• Col 4 Lease Status. Valid values are:

- Blank or 0 - Unknown.
- 1 - Unleased.
- 1 - We pay
- 2 - Partner pays
- 3 - Paid up
- 4 - Shut-in
- 5 - Held by unit
- 6 - Help by production

Col 5 Processing Status. Valid status are:

- 0 - Original Issue
- 1 - Attribute update only
- 2 - Spatial data update only



- 3 - Attribute and Spatial data update

Col 6-8 Reserved.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" corresponding to 27 north through 32 north).

Col 61-76 Section Number. A 16-character field containing the number or name of the section in which the lease being described is located, if it is contained in a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose the entire lease being described.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose the entire real lease being described.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the boundary of the lease being described.

Col 127-132 Tract Count. A 6 digit number specifying the number of tracts within the lease.

3.8.2 Lease Data, Header Page 2 (Data Type 5, Record Type 1)

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "1", indicating that this record is page 2 of a Header.

Col 3-8 Reserved.

Col 9-18 Abstract Number. An 10-character field specifying the abstract number for a piece of land.

Col 19-28 TOBIN Lease Number. An 10-character field specifying the Lease number for a lease.

Col 29-30 Mineral Number. An 2-character field specifying the mineral number for a lease.

Col 31-45 State Lease Number. A 15-character field specifying state identification for this lease.

Col 46-60 Appraisal District Lease Account Number. A 15-character field specifying the appraisal district account number for the lease.

Col 61-100 Recording Information

Col 61-70. Volume.

Col 71-74. Book.



Col 75-80. Page.

Col 81-100. File.

Col 101-102 Attribute Source Code.

Col 103-104 Map Source Code.

Col 105-112 Revision Date. Last date the data was revised in the form YYYYMMDD.

Col 113-114 Lease Transaction Code.

Col 115-132 Reserved.

3.8.3 Lease Data, Header Page 3 (Data Type 5, Record Type 2)

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "2", indicating that this record is page 3 of a Header.

Col 3-8 Reserved.

Col 9-16 Instrument Date. A 8-character field in the form YYYYMMDD containing the instrument or issue date of the lease being described.

Col 17-24 Effective Date. A 8-character field in the form YYYYMMDD containing the effective date of the lease being described.

Col 25-32 Annual Rent Due Date. A 8-character field in the form YYYYMMDD containing the annual rent due date of the lease being described.

Col 33-40 Expiration Date. A 8-character field in the form YYYYMMDD containing the expiration date of the lease being described.

Col 41-48 Extension Date. A 8-character field in the form YYYYMMDD containing the extension date of the lease being described.

Col 49-56 Acquisition Date. A 8-character field in the form YYYYMMDD containing the date the lease information was obtained.

Col 57-61 Lease Term. A 4 digit field specifying the term of the lease.

Col 62 Lease term units.

- D - Days
- M - Months
- Y - Years

Col 63-71 Bonus Amount (Dollar). A 10 digit field containing the bonus amount for the lease being described in the form NNNNNNNNnn.

Col 72-81 Rental Amount (Dollar). A 10-character field containing the rental amount in the form NNNNNNNNnn.

Col 82-91 Royalty Amount Percentage. A 9 character field containing the royalty amount in percent, in the form NNNnnnnnn.

Col 92 Reserved.

Col 93-98 Lease Top. A 6 digit field which contains the upper depth of the lease.

Col 99-104 Lease Top Formation. A 6 character field which contains the formation name of the upper depth of the lease.

Col 105-110 Lease Bottom. A 6 digit field which contains the lower depth of the lease.

Col 111-116 Lease Bottom Formation. A 6 character field which contains the formation name of the bottom depth of the lease.

Col 117-125 Overriding Royalty Interest. The ORRI percentage for the lease as a percentage in the form NNNnnnnnn.

Col 126-132 Reserved.

3.8.4 Lease Data, Header Page 4 (Data Type 5, Record Type 3)

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "3", indicating that this record is page 4 of a Header.

Col 3-8 Reserved.

Col 9-17 Gross Acreage. The 9 digit field specifying the recorded acreage of the lease in the form NNNNNNNnnn.

Col 18-26 Gross Acreage (Calculated). The 9 digit field specifying the calculated acreage of the lease in the form NNNNNNNnnn.

Col 27-35 Net Acreage. The 9 digit field specifying the net acreage of the lease in the form NNNNNNNnnn.



Col 36-44 Mineral Interest. A nine digit field specifying the mineral interest percentage of the lease in the form NNNnnnnnn.

Col 45-84 Lessor Name. A forty character field specifying the lessor's name.

Col 85-124 Lessee Name. A forty character field specifying the lessee's name.

Col 125-132 Reserved.

3.8.5 Lease Data, Annotation Records (Data Type 5, Record Type 5)

Each record of Data Type 5 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.

Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field.

All characters in the text will be printable ASCII characters.

3.8.6 Lease Data, Survey Continuation Records (Data Type 5, Record Type 6)

Whenever a record of Record Type 6 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 5 and Record Type 6 has the following format. Note that this format is common to all records of Record Type 6, regardless of Data Type.

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "6", indicating that this record is a Survey Continuation Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Survey Text. Up to 126 characters of free-form text further refining the geopolitical location of the lease. Items in these fields might include quarter/quarter call, meets and bounds, etc., The text is left justified within the field. All characters in the text will be printable ASCII characters.

3.8.7 Lease Data, Text Records (Data Type 5, Record Type 7)

Whenever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 5 and Record Type 7 has the following format. Note that this format is common to all records of Record Type 7, regardless of Data Type.

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "7", indicating that this record is a Text Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Text. Up to 126 characters of free-form text, left justified within the field. All characters in the text will be printable ASCII characters.

3.8.8 Lease Data, Coordinate Records (Data Type 5, Record Type 9)



Wherever records of Record Type 9 occur, any number can occur together.

Each record of Data Type 5 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "5", indicating that this record contains Lease Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "A" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.

Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.

Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.

Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

3.9 Lease Tract Data (Data Type 6)

Lease Tract Data describes the tracted pieces of an oil and gas lease. Each entity in the TOBIN InfoBase will consist of one record of Record Type 0, followed possibly by one or more Annotation Records (Record Type 5), sufficient Text Records (Record Type 7) to contain the full legal description of the lease being described, and sufficient Coordinate Records (Record Type 9) to specify the boundary of the lease being described. Additional information regarding the lease will be contained in a record of Record Type 1 (Header page 2), Record Type 2 (Header page 3), and possibly in a record of Record Type 3 (Header page 4).

3.9.1 Lease Tract Data, Header Page 1 (Data Type 6, Record Type 0)

Each record of Data Type 6 and Record Type 0 has the following format.

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a Header.

Col 3-4 Tract ID. A 2 digit number identifying the lease tract. a null (0) value indicates a hole.

Col 5-8 Reserved.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according



to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" corresponding to 27 north through 32 north).

Col 61-76 Section Number. A 16-character field containing the number or name of the section in which the lease being described is located, if it is contained in a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose the entire lease being described.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose the entire real lease being described.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the boundary of the tract being described.

Col 127-132 Reserved.

3.9.2 Lease Tract Data, Header Page 2 (Data Type 6, Record Type 1)

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "1", indicating that this record is page 2 of a Header.

Col 3-8 Reserved.

Col 9-18 Abstract Number. An 10-character field specifying the abstract number for a piece of land.

Col 19-28 TOBIN Lease Number. An 10-character field specifying the Lease number for the tract.

Col 29-30 Mineral Number. An 2-character field specifying the mineral number for the tract.

Col 31-38 Extension Date. A 8-character field in the form YYYYMMDD containing the extension date of the lease being described.

Col 39-47 Gross Acreage. The 9 digit field specifying the recorded acreage of the lease in the form NNNNNNnnn.

Col 48-56 Gross Acreage (Calculated). The 9 digit field specifying the calculated acreage of the lease in the form NNNNNNnnn.

Col 57-65 Net Acreage. The 9 digit field specifying the net acreage of the lease in the form NNNNNNnnn.

Col 66-74 Mineral Interest. A nine digit field specifying the mineral interest percentage of the lease in the form NNNnnnnnn.

Col 75-114 Recording Information

Col 75-84. Volume.

Col 85-88. Book.

Col 89-94. Page.

Col 95-114. File.

Col 117-132 Reserved.



3.9.3 Lease Tract Data, Header Page 3 (Data Type 6, Record Type 2)

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "2", indicating that this record is page 3 of a Header.

Col 3-8 Reserved.

Col 9-14 Tract Top. A 6 digit field which contains the upper depth of the Tract.

Col 15-20 Tract Top Formation. A 6-character field which contains the formation name of the upper depth of the Tract.

Col 21-26 Tract Bottom. A 6 digit field which contains the lower depth of the Tract.

Col 27-32 Tract Bottom Formation. A 6-character field which contains the formation name of the bottom depth of the Tract. Col 33-41 Lease Overriding Royalty Interest. A nine digit field specifying the ORRI (percentage) for the LEASE in the form NNNnnnnnn.

Col 42-50 Net Revenue Interest. A nine digit field specifying the net revenue interest (percentage) of the LEASE in the form NNNnnnnnn.

Col 33-132 Reserved.

3.9.4 Lease Tract Data, Header Page 4 (Data Type 6, Record Type 3)

Wherever a record of Record Type 6 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record.

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "3", indicating that this record is page 4 of a Header.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 3-8 Reserved.

Col 9-48 Working Interest Owner Name. A forty character field specifying the Working Interest Owner's name.

Col 49 Record/Working Interest Flag indicates whether the is a record (R) or working interest (W).

Col 50-58 Overriding Royalty Interest. Expressed as a percentage in the form NNNnnnnnn.

Col 59-67 Net Acreage. Expressed in the form NNNNNNnnn.

Col 68-76 Net Revenue Interest. Expressed as a percentage in the form NNNnnnnnn.

Col 77-132 Reserved.

3.9.5 Lease Tract Data, Annotation Records (Data Type 6, Record Type 5)

Each record of Data Type 5 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.

Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field. All characters in the text will be printable ASCII characters.

3.9.6 Lease Tract Data, Survey Continuation Records (Data Type 6, Record Type 6)

Wherever a record of Record Type 6 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record.

Each record of Data Type 5 and Record Type 6 has the following format. Note that this format is common to all records of Record Type 6, regardless of Data Type.



Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "6", indicating that this record is a Survey Continuation Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Survey Text. Up to 126 characters of free-form text further refining the geopolitical location of the lease. Items in these fields might include quarter/quarter call, meets and bounds, etc., The text is left justified within the field. All characters in the text will be printable ASCII characters.

3.9.7 Lease Tract Data, Text Records (Data Type 6, Record Type 7)

Wherever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 6 and Record Type 7 has the following format. Note that this format is common to all records of Record Type 7, regardless of Data Type.

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "7", indicating that this record is a Text Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Text. Up to 126 characters of free-form text, left justified within the field. All characters in the text will be printable ASCII characters.

3.9.8 Lease Tract Data, Coordinate Records (Data Type 6, Record Type 9)

Wherever records of Record Type 9 occur, any number can occur together.

Each record of Data Type 6 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "^" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.

Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.

Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.



Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

3.10 Ownership Data (Data Type 7)

Ownership Data describes real property ownership. Each entity in the TOBIN InfoBase will consist of one record of Record Type 0, followed possibly by one or more Annotation Records (Record Type 5), sufficient Text Records (Record Type 7) to contain the full legal description of the ownership property being described, and sufficient Coordinate Records (Record Type 9) to specify the boundary of the ownership property being described. Additional information regarding the Ownership will be contained in a record of Record Type 1 (Header page 2).

3.10.1 Ownership Data, Header Page 1 (Data Type 7, Record Type 0)

Each record of Data Type 6 and Record Type 0 has the following format.

Col 1 Data Type. Always "7", indicating that this record contains Ownership Data.

Col 2 Record Type. Always "0", indicating that this record is page 1 of a Header.

Col 3-8 Reserved.

Col 9-40 Survey Name. A 32-character field containing the name of the survey in which the entity being described is located; for instance, in Texas, "ACH&B&H&W" or "PICKNEY&BARROW". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian system, this field will contain Survey and Meridian names; for instance, "J 11" for the 6th Principal Meridian, Meridian 11 of the Jeffersonian system. (See Appendix C for a list of the Meridians.) In areas surveyed according to the Dominion Land Survey, this field will contain Survey and Meridian names; for instance, "D 1 W4" for the 4th meridian of Alberta, "D 2 W3" for the 3rd meridian of Saskatchewan. In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will contain "C 90" for Tennessee or "C 91" for Kentucky. In offshore areas, this field has the two letter area code (See Appendix F).

Col 41-60 Block Name. A 20-character field containing, in Texas, the name of the block, if the entity being described is a block or is contained within a single block; for instance, "Z-1" or "36 T3S". The name is left justified and padded with blanks on the right. In areas surveyed according to the Jeffersonian or Dominion systems, this field will specify the township and range; for instance, "13N 24E" for township 13 north, range 24 east. Half townships are specified as, for instance, "13.5N". In areas surveyed according to the Carter system (Kentucky and Tennessee), this field will also specify the township and range, but in a different form: in Tennessee ranges are numbered as in the Jeffersonian system, from "10W" through "95E", while in Kentucky they are numbered from 0 (corresponding to 1 west) through "91" (corresponding to 91 east); in both states townships south are specified as in the Jeffersonian system, while townships north are named "A" through "Z" (corresponding to 1 north through 26 north), and "AA" through "FF" corresponding to 27 north through 32 north).

Col 61-76 Section Number. A 16-character field containing the number or name of the section in which the lease being described is located, if it is contained in a single section.

Col 77-78 State Code. The 2-digit API number specifying the State or Province in which the entity being described is located. Refer to Appendix A for a list of API state codes. Refer to Appendix F for a list of Offshore API state codes.

Col 79-81 County Code. The 3-digit API number specifying the County in which the entity being described is located. Refer to Appendix B for a list of the API County Codes. Refer to Appendix F for a list of the Offshore API County Codes.

Col 82-85 Railroad District. A 4-character abbreviation specifying (for Texas data) the Railroad District in which the entity being described is located.

Col 86 Reserved.

Col 87-103 SW Corner. A 17-digit X-Y coordinate pair representing the southwest corner of a box just large enough to enclose the entire property being described.

Col 104-120 NE Corner. A 17-digit X-Y coordinate pair representing the northeast corner of a box just large enough to enclose the entire property being described.

Col 121-126 Point Count. A 6-digit number specifying how many points make up the boundary of the property being described.



Col 127-132 Reserved.

3.10.2 Lease Tract Data, Header Page 2 (Data Type 6, Record Type 1)

Col 1 Data Type. Always "6", indicating that this record contains Lease Tract Data.

Col 2 Record Type. Always "1", indicating that this record is page 2 of a Header.

Col 3-8 Reserved.

Col 9-18 Abstract Number. An 10-character field specifying the abstract number for a piece of land.

Col 19-28 TOBIN Ownership Number. An 10-character field specifying the Ownership number for a ownership tract.

Col 29-68 Owner Name. A 40 character field specifying the Owner name.

Col 69-77 Deeded Acres. The recorded acreage in the form NNNNNNnnn.

Col 78-95 Revision Date. In the form YYYYMMDD.

Col 96-99 Source. Specifies the data source.

Col 100-132 Reserved.

3.10.3 Ownership Data, Annotation Records (Data Type 7, Record Type 5)

Each record of Data Type 7 and Record Type 5 has the following format. Note that this format is common to all records of Record Type 5, regardless of Data Type.

Col 1 Data Type. Always "6", indicating that this record contains Ownership Data.

Col 2 Record Type. Always "5", indicating that this record is an Annotation Record.

Col 3-19 Text Location. A 17-character XY coordinate pair specifying where the center of the annotation text is to be located.

Col 20-21 Text Font. A 2-character numeric field, with possible values from "00" to "99", reserved for specification of the text font to be used in annotation.

Col 22-27 Text Size. A 6-character numeric field, specifying the height of the annotation text, measured in feet at the scale of the map.

Col 28-29 Text Count. A 2-digit numeric field specifying how many characters make up the annotation string for this record. Values from "00" to "99" are valid.

Col 30-32 Text Rotation. A 3-digit numeric field specifying the number of degrees clockwise from horizontal at which the text is to be displayed. Values range from "000" (the usual) to "359".

Col 33 Reserved.

Col 34-132 Text. Up to 99 characters of annotation text, left justified within the field. All characters in the text will be printable ASCII characters.

3.10.4 Ownership Data, Survey Continuation Records (Data Type 7, Record Type 6)

Wherever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 7 and Record Type 6 has the following format. Note that this format is common to all records of Record Type 6, regardless of Data Type.

Col 1 Data Type. Always "7", indicating that this record contains Ownership Data.

Col 2 Record Type. Always "6", indicating that this record is a Survey Continuation Record.

Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Survey Text. Up to 126 characters of free-form text further refining the geopolitical location of the lease. Items in these fields might include quarter/quarter call, meets and bounds, etc., The text is left justified within the field. All characters in the text will be printable ASCII characters.

3.10.5 Ownership Data, Text Records (Data Type 7, Record Type 7)

Wherever a record of Record Type 7 occurs, any number of them can occur. Continuation records are distinguished from the first record in each piece of text by the value of the Continuation field in the record. Each record of Data Type 7 and Record Type 7 has the following format. Note that this format is common to all records of Record Type 7, regardless of Data Type.

Col 1 Data Type. Always "7", indicating that this record contains Ownership Tract Data.

Col 2 Record Type. Always "7", indicating that this record is a Text Record.



Col 3 Continuation. A 1-character field specifying whether this record is a continuation of a string of text that was too long to fit in a single record, or the beginning of a new string. The value is " " (blank) if this is the first record in the text string, and "&" (ampersand) if it is a continuation.

Col 4-6 Count. A 3-character numeric field containing the number of valid text characters in this record. Possible values from "000" to "126".

Col 7-132 Text. Up to 126 characters of free-form text, left justified within the field. All characters in the text will be printable ASCII characters.

3.10.6 Ownership Data, Coordinate Records (Data Type 7, Record Type 9)

Wherever records of Record Type 9 occur, any number can occur together.

Each record of Data Type 7 and Record Type 9 has the following format. Note that this format is common to all records of Record Type 9, regardless of Data Type.

Col 1 Data Type. Always "6", indicating that this record contains Ownership Data.

Col 2 Record Type. Always "9", indicating that this record is a Coordinate Record.

Col 3 Point Count. A 1-character numeric field specifying the number of valid X-Y coordinate pairs in this records. Possible values from "0" to "7".

Col 4-6 Reserved.

Col 7 Penup 1. A 1-character field specifying whether the coordinate pair XY1 begins a new polygon, line, or set of points. A value of " " (blank) indicate that XY1 is a continuation of a previous set of points, while "^" (up-arrow) indicates a new set of points.

Col 8-24 XY1. A 17-character X-Y coordinate pair.

Col 25 Penup 2. A 1-character field specifying whether the coordinate pair XY2 begins a new set of points. See Penup 1 for details.

Col 26-42 XY2. A 17-character X-Y coordinate pair.

Col 43 Penup 3. A 1-character field specifying whether the coordinate pair XY3 begins a new set of points. See Penup 1 for details.

Col 44-60 XY3. A 17-character X-Y coordinate pair.

Col 61 Penup 4. A 1-character field specifying whether the coordinate pair XY4 begins a new set of points. See Penup 1 for details.

Col 62-78 XY4. A 17-character X-Y coordinate pair.

Col 79 Penup 5. A 1-character field specifying whether the coordinate pair XY5 begins a new set of points. See Penup 1 for details.

Col 80-96 XY5. A 17-character X-Y coordinate pair.

Col 97 Penup 6. A 1-character field specifying whether the coordinate pair XY6 begins a new set of points. See Penup 1 for details.

Col 98-114 XY6. A 17-character X-Y coordinate pair.

Col 115 Penup 7. A 1-character field specifying whether the coordinate pair XY7 begins a new set of points. See Penup 1 for details.

Col 116-132 XY7. A 17-character X-Y coordinate pair.

Appendix A 1.3 (State Codes) is contained in [tobin_v13state.doc](#)

Appendix B 1.5 (County Codes) is contained in [tobin_v15cnty.doc](#)

Appendix C 1.4 (TOBIN Meridian Codes) is contained in [tobin_v14tobinmc.doc](#)

Appendix D 1.2 (TOBIN Well Codes) is contained in [tobin_well_codes.doc](#)

Appendix E 1.12 (Culture Codes) is contained in [tobin_culture_codes.doc](#)

Appendix F 1.2 (Offshore Codes) is contained in [tobin_offshore_codes.doc](#)