



# Tobin International Ltd. Well Coordinate Service (WCS) Data Distribution Format

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## INTRODUCTION

The WCS product, from Tobin International, Ltd, is a monthly well information service. This document describes the data format and type of media supplied.

### 1. About the Format

The TOBIN Well Coordinate Service data distribution format provides a textual representation of TOBIN Well information. The data distribution format is an ASCII fixed-width format. It is best suited for UNIX, VAX/VMS or MS-DOS operating systems.

### 2. Distribution Media

Data sets are available for delivery on floppy disk, tape, Compact Disk (CD-ROM) and, in some cases, via *ftp* site.

### 3. Record Types

Each record in the TOBIN WCS begins with a 1-character numeric field, which describes the record TYPE.

#### Type 1 Delete record.

This record represents a well that was previously issued through the WCS update process and is now inactive and should be deleted from the database. The record is truncated to 116 bytes (116 characters).

#### Type 2 Normal well.

This record represents a vertically drilled well. The record length is 206 bytes (206 characters).

#### Type 3 Directionally drilled well.

This record represents a well where the hole is purposely deviated from the vertical in specific directions to reach an objective location other than directly under the surface location. A directional sidetrack or horizontal also falls in this category. The record length is 276 bytes (276 characters).

#### Type 4 Location calls.

This record describes a survey location of a well respected to property, lease, federal/state/private legal survey line.

### 3.1. Type 1 Record Format

Actual record.

<b>1490372390100 DELETED</b>	<b>ROBERT FEDERAL</b>	<b>2 WILDCAT</b>	<b>000411</b>
<b>1490377000199 SEE API 12345</b>	<b>ROBERT FEDERAL</b>	<b>2 WILDCAT</b>	<b>000411</b>

Col: 1 Record type "1"

Col: 2-3 State code, zero is place holder.

01 State code of ALABAMA

42 State code of TEXAS

Col: 4-6 County Code, zero is place holder.

001 Anderson in state of Texas

093 Comanche in state of Texas

Col: 7-11 American Petroleum Institute (API) unique assigned number by government agency.  
Zero is place holder.

Col: 12-13 Additional Directional or Horizontal bottom hole drilled, which originated from original drilled hole.  
Zero is place holder.



Original drilled hole is designated as 00. First sidetrack is 01, next one is 02 and so on.

Col: 14 Maintenance code is a blank character.

Col: 15-44 Typed out as DELETED or SEE API "API number here", left justified.

Col: 45-74 Lease name, left justified.

Col: 75-80 Well number, assigned by well's operator, left justified.

Col: 81-110 Area/Field, left justified.

Col: 111-116 Last update date of record to TOBIN database, in YYMMDD format. Zero is place holder.  
YY is applied such: 85-99 implied from year of 1985 to 1999  
00-84 implied from year of 2000 to 2084  
Example: 000103 read as January 03, 2000



### 3.2. Type 2 Record Format

Col: 1	Record type "2"	
Col: 2-3	State code, zero is place holder.	01 State code of ALABAMA 42 State code of TEXAS
Col: 4-6	County Code, zero is place holder.	001 Anderson in state of Texas 093 Comanche in state of Texas
Col: 7-11	American Petroleum Institute (API) unique assigned number by government agency. Zero is place holder.	
Col: 12-13	Additional Directional or Horizontal bottom hole drilled, which originated from original drilled hole. Zero is place holder.	
Col: 14	Original drilled hole is designated as 00. First sidetrack is 01, next one is 02 and so on. Maintenance code is a letter A or B or blank. It represented century year of well completion date. <b>Blank</b> character: represented year of 1800. <b>A</b> : represented year of 1900. <b>B</b> : represented year of 2000.	
Col: 15-44	Operator name, left justified.	
Col: 45-74	Lease name, left justified.	
Col: 75-80	Well number, assigned by well's operator, left justified.	
Col: 81-110	Area/Field, left justified.	
Col: 111-116	Last update date of record to TOBIN database, in YYMMDD format. Zero is place holder. YY is applied such: 85-99 implied from year of 1985 to 1999 00-84 implied from year of 2000 to 2084 Example: 000103 read as January 03, 2000	
Col: 117-119	Railroad block, subdivision, league, area and tract identify number assigned TOBIN for Gulf Coast area. 3 digits Meridian code for outside of Gulf Coast area, where applicable. The ID area file is furnished upon request.	
Col: 120	Flag. Indicates the type of Survey Identification and of the following column 121-139. <b>Blank</b> Read-on to next flag, applied only to Texas survey. <b>B</b> Block survey format. <b>C</b> Carter Township-Range format. <b>J</b> Township-Range (Jeffersonian survey) applied to outside Gulf Coast area. <b>T</b> Township-Range (Jeffersonian survey) applied to Gulf Coast area only.	
Col: 121-139	Survey format. Sub-flag used where applicable, see sample.	
Col: 128	<b>S</b> Section name to follow.	
Col: 134	<b>A</b> Texas abstract name to follow.	
Sample:		
<b>000T7S2W S 26</b>	Col: 121-127	Since flag "T" at column 120, then Gulf Coast Township-Range survey. Township 7S Range 2W, left justified, right padding with blank.
	Col: 128	Flag: S - Section name to follow.
	Col: 129-133	Section name, right justified, left padding with blank.
	Col: 134-139	Blank.
<b>000 A 466</b>	Col: 121-133	Since no flag at column 120, read-on to next flag. Blank.
	Col: 134	Flag: A - Texas abstract survey to follow.
	Col: 135-139	Abstract number, right justified, left padding blank.
<b>000 S 9A 14</b>	Col: 121-127	Since no flag at column 120, read-on to next flag. Blank.
	Col: 128	Flag: S - Section name to follow
	Col: 129-133	Section name, right justified, left padding with blank.



Col: 134  
Col: 135-139

Flag: A - Texas abstract survey to follow.  
Abstract number, right justified, left padding blank.



**255B 6S 67** Flag "B" at column 120, block survey to follow.  
 Col: 121 Flag: B – Block name to follow.  
 Col: 122-127 Block name in Texas survey.  
 Col: 128 Flag: S - Section name to follow.  
 Col: 129-133 Section name, right justified, left padding with blank.  
 Col: 134-139 Blank.  
 Note: Col: 117-119 Block ID name.

**036J25N 12W 11** Flag "J" at column 120, then No Gulf Coast Township-Range survey.  
 Col: 121-139 Township, blank, Range, blank, Section. Left justified, right padding with blank  
 Note: Col: 117-119 Meridian name.

**000C E 45S 7** Since flag "C" at column 120, then Carter Township-Range survey.  
 Col: 121-127 Township-Range "E 45", right justified, left padding with blank.  
 Col: 128 Flag: S - Section name to follow.  
 Col: 129-133 Section name, right justified, left padding with blank.  
 Col: 134-139 Blank.

Col: 140-145 Completion Date of well, date format: YYMMDD.  
 Refer to column 14, maintenance code, for its century.  
 To use: If column 14 is "B" then 2000+YY = 20YY.  
 "A" then 1900+YY = 19YY.

Col: 146-150 Total Completion depth on completed well, otherwise it is proposed depth on permitted well.  
 Left padding with zero.

Col: 151-153 Well final status  
 Sample of most widely used status.

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P&A	Plugged and Abandoned
T&A	Temporarily Abandoned
D&A	Dry Hole
J&A	Junked and Abandoned
OIL	Oil Well
GAS	Gas Well
MOG	Multiple Oil & Gas
M-O	Multiple Oil Well
M-G	Multiple Gas Well
AGW	Abandoned Gas Well
AOW	Abandoned Oil Well
LOC	Permit
SUS	Suspended Well
SER	Service Well
INJ	Injection Well

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More well final status will furnish upon request.

Col: 154 Document source Code

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0	IHS
1	Dwights
2	PI
3	State
4	Historical Ticket
5	Client Data
6	Offshore Scout

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7	HPDI
9	Unknown

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Col: 155      Meta Data code

- 0 .....Well site on USGS quad
- 1 .....Well site evidence on orthophoto
- 2 .....Location calculated from a monument
- 3 .....Location calculated from other wells
- 4 .....Location calculated from lease tract
- 5 .....Location calculated from ownership or subdivision
- 6 .....Location determined by ground survey
- 7 .....Incomplete description. Placed in center of survey
- 8 .....Location falls outside county specified in API
- 9 .....Acceptable location within method
- A.....Location description per XY or Latitude Longitude
- B.....Location determined by interpretation of plat
- C.....In lake, river or bay. Description from nearest survey
- D.....In accretion. Description from nearest survey
- E.....In lot. Description from nearest survey
- F.....Location calculated from unit
- G.....Stack lateral same location different depths
- H.....No bottom hole reported
- I .....Location within 25FT of another well
- J.....Platform
- K.....Outside polygon within 25FT of another well
- A.....Differential GPS
- b .....Best location with unverifiable resources
- c .....Location determined with minimal information
- d .....Same location with other well
- y .....Incomplete description. Placed at center of lease
- z .....Location from projected survey

- Col: 156-163    TOBIN grid
- Col: 164-165    State Plane Zone Code (NAD 27)
- Col: 166-175    X coordinate, state plane projection NAD 27 unit feet, round to whole number.
- Col: 176-185    Y coordinate, state plane projection NAD 27 unit feet, round to whole number.
- Col: 186-192    Latitude, geographic projection NAD 27.  
To use, dividing latitude by 100000. This calculation is moved decimal point 5 places to left.  
Ex. 3412340 read as 34.12340 degree
- Col: 193-200    Longitude, geographic projection NAD 27.  
To use, dividing longitude by 100000. This calculation is moved decimal point 5 places to left.  
Ex. 03412340 read as 034.12340 degree west of Greenwich meridian (i.e. -34.12340).
- Col: 201        Elevation type "G" ground only, blank otherwise.
- Col: 202-206    Elevation value in whole number, left padding with zero. Otherwise is 99999.

### 3.3. Type 3 Record Format

For Col: 1-206    See Type 2 record format.

- Col: 207-209    Railroad block, subdivision, league, area and tract identify number assigned TOBIN for Gulf Coast area.  
3 digits Meridian code for outside of Gulf Coast area, where applicable.  
The ID area file is furnished upon request.
- Col: 210        Flag. Indicates the type of Survey Identification and of the following column 121-139.

- Blank**    Read-on to next flag, applied only to Texas survey.
- B**        Block survey format.



- C** Carter Township-Range format.
- J** Township-Range (Jeffersonian survey) applied to outside Gulf Coast area.
- T** Township-Range (Jeffersonian survey) applied to Gulf Coast area only.



- Col: 211-229 Survey format.  
Sub-flag used where applicable, see sample.  
Col: 218 **S** Section name to follow.  
Col: 224 **A** Texas abstract name to follow.
- Sample:  
**000T7S2W S 26** Since flag "T" at column 210, then Gulf Coast Township-Range survey.  
Col: 211-217 Township 7S Range 2W, left justified, right padding with blank.  
Col: 218 Flag: S - Section name is followed.  
Col: 219-223 Section name, right justified, left padding with blank.  
Col: 224-229 Blank.
- 000 A 466** Since no flag at column 210, to read-on to next flag.  
Col: 211-223 Blank.  
Col: 224 Flag: A - Texas abstract survey is followed.  
Col: 225-229 Abstract number, right justified, left padding blank.
- 000 S 9A 14** Since no flag at column 210, to read-on to next flag.  
Col: 211-217 Blank.  
Col: 218 Flag: S - Section name is followed.  
Col: 219-223 Section name, right justified, left padding with blank.  
Col: 224 Flag: A - Texas abstract survey is followed.  
Col: 225-229 Abstract number, right justified, left padding blank.
- 255B 6S 67** Flag "B" at column 210, block survey is followed.  
Col: 210 Flag: B – Block name to follow  
Col: 211-217 Block name in Texas survey.  
Col: 218 Flag: S - Section name is followed.  
Col: 219-223 Section name, right justified, left padding with blank.  
Col: 224-229 Blank.  
Note: Col: 207-209 Block ID name.
- 036J25N 12W 11** Flag "J" at column 210, then None Gulf Coast Township-Range survey.  
Col: 210 Flag: B – Block name to follow  
Col: 211-229 Township, blank, Range, blank, Section. Left justified, right padding with blank  
Note: Col: 207-209 Meridian name.
- 000C E 45S 7** Since flag "C" at column 210, then Carter Township-Range survey.  
Col: 211-217 Township-Range "E 45", right justified, left padding with blank.  
Col: 218 Flag: S - Section name is followed.  
Col: 219-223 Section name, right justified, left padding with blank.  
Col: 224-229 Blank.
- Col: 230 Same information as column 154.  
Col: 231 Same information as column 155.  
Col: 232-239 TOBIN grid of bottom hole location.  
Col: 240-241 State Plane Zone Code (NAD 27).  
Col: 242-251 X coordinate, state plane projection NAD 27 unit feet, round to whole number.  
Col: 252-261 Y coordinate, state plane projection NAD 27 unit feet, round to whole number.  
Col: 262-268 Latitude, geographic projection NAD 27.  
To use, dividing latitude by 100000. This calculation is moved decimal point 5 places to left.  
Ex. 3412340 read as 34.12340 degree
- Col: 269-276 Longitude, geographic projection NAD 27.  
To use, dividing latitude by 100000. This calculation is moved decimal point 5 places to left.



Ex. 03412340 read as 034.12340 degree west of Greenwich meridian (i.e. -34.12340).



## 2.4 Type 4 Record Format

Actual record:

**4170072047200S01894FSWL00632FWL 13750**

**4170072047300S00000 00000 155001713W 458N FR SECR**

**4170072047300B00000 00000 00000S 11D31M24S E 2265 FR SL**

**4170012206500S00000 00000 13350FR NECR SEC 46 GO W ALG NL 1309 TH S RA 505**

**4171012196800S00000 00000 00000N 73D42M44S W 28007 FR MON MYETTE 1935**

Col: 1 Record type "4"

Col: 2-3 State code, zero is left padding to 2 digits. 01 State code of ALABAMA

42 State code of TEXAS

Col: 4-6 County Code, zero is left padding to 3 digits. 001 Anderson in state of Texas

093 Comanche in state of Texas

Col: 7-11 American Petroleum Institute (API) unique assigned number by government agency.  
Zero is left padding to 5 digits.

Col: 12-13 Additional Directional or Horizontal bottom hole drilled, which originated from original drilled hole.  
Zero is left padding to 2 digits.

Original drilled hole is designated as 00. Next sidetrack is 01, next one is 02 and so on.

Col: 14 "S" surface location calls, "B" bottom hole location calls when well is directionally or horizontally.

Col: 15-19 First footage calls from a survey line, in whole number left padding with zero.

Col: 20-23 First direction, left justified. Blank if not applicable.

Example: FSL from South line.

FEL from East line.

Col: 24-28 Second footage calls from a survey line, in whole number left padding with zero.

Col: 29-32 Second direction, left justified. Blank if not applicable.

Col: 33-37 True vertical depth.

Col: 38-107 Additional location information.

Examples:

CENTER SW SE Well location is at center quarter of section.

N 30D45M30S W 3000 FR SWC OF SECTION 3

Well is at North 30degree 45'30" West 3000 feet from southwestern corner of section 3.

N 30D45M30S W 3000 FR MON WEEK 2

Well is at North 30degree 45'30" West 3000 feet from monument "WEEK 2".

FR SWC GO NW ALG SWL 300 TH NE RA 2500

Well is from southwestern corner go northwesterly along southwest line for 300 feet then northeasterly right angle for 2500.

300N 300w FR SEC SE SE

Well is at due north 300 feet then due west 300 feet from southeastern corner of SE SE quarter section.