

How to make the CSV file from Vibroseis or Dynamite

The following document will explain Basic steps to create a proper Shotlog to import into the TX1 software in order to output deliverable data based on Shot times.

INOVA has a .csv template that has required columns and proper naming.

The absolute necessary parameters in Shot log are:

(Anything with an “*asterisk*” beside it is mandatory)

File Column Mapping (* means required)

Field Name	Column Name
▶ Timebreak Second (Unix Timestamp or DateTime)*	Timebreak Second (Unix Timestamp or DateTime)
Timebreak Millisecond*	Timebreak Millisecond
Timebreak Microsecond	Timebreak Microsecond
Shot Sequence Number*	Master System Field Record ID
Shot ID*	ShotID
EP number*	EP number
Sweep ID	
Record Length (Sec or mSec)*	Acquisition Time (mSecs)
Sample Rate (mSec or uSec)*	Sample Rate (mSecs)
Source Line*	Source Line
Source Station*	Source Station
Source Type (Dynamite or Vibroseis)*	Source Type (Dynamite or Vibroseis)

-When creating a shot log the Above parameters must be included. If other parameters are required, then they must be part of the shotlog.

-A Master shotlog will be available for your reference with these instructions

(MasterShotListDynamite_Vibe.csv)

Below is a full list of options.

Align Columns

File Column Mapping (* means required)

Field Name	Column Name
Timebreak Second (Unix Timestamp or DateTime)*	
Timebreak Millisecond*	
Timebreak Microsecond	
Shot Sequence Number*	Master System Field Record ID
Shot ID*	Shot ID
EP number*	EP Number
Sweep ID	Sweep ID
Record Length (Sec or mSec)*	Acquisition Time (mSecs)
Sample Rate (mSec or uSec)*	Sample Rate (uSecs)
Source Line*	Source Line
Source Station*	Source Station
Source Type (Dynamite or Vibroseis)*	Source Type (Dynamite or Vibroseis)
Source Point Index	
Source Point Code	
Source X	Source X
Source Y	Source Y
Source Z	Source Z
Omit	Omit
File Type (Production or Wireline)	File Type
Uphole Time (mSecs)	Uphole Time (milliseconds)
Charge Depth (meters or feet)	
Charge size (kg or lbs)	
Sweep Type (ShotPro, Linear, dbHz, dbOct, etc)	Sweep Type (ShotPro, Linear, dbHz, dbOct, etc)
Sweep Start Frequency (Hz)	Sweep Start Frequency (Hz)
Sweep End Frequency (Hz)	Sweep End Frequency (Hz)
Sweep Length (mSecs)	Sweep Length (mSecs)
Taper Type (BlackMan or Cosine)	Taper Type (BlackMan or Cosine)
Start Taper Duration (mSecs)	Start Taper Duration (mSecs)
End Taper Duration (mSecs)	End Taper Duration (mSecs)
Sweep Constant	
Sweep Phase (deg)	
Timebreak Window Remaining (uSecs)	
Comment	Comment
Vibes (64-bit mask)	Vibes (64-bit mask)
Raw File Number	File - Uncorr EP
Stack Only File Number	File - Uncorr Stack
Correlate Only File Number	File - Corr EP
CBS File Number	File - Corr Before Stack

< Back

Next >

Cancel

-Once the Shot log is properly generated Import shot log Using TX1

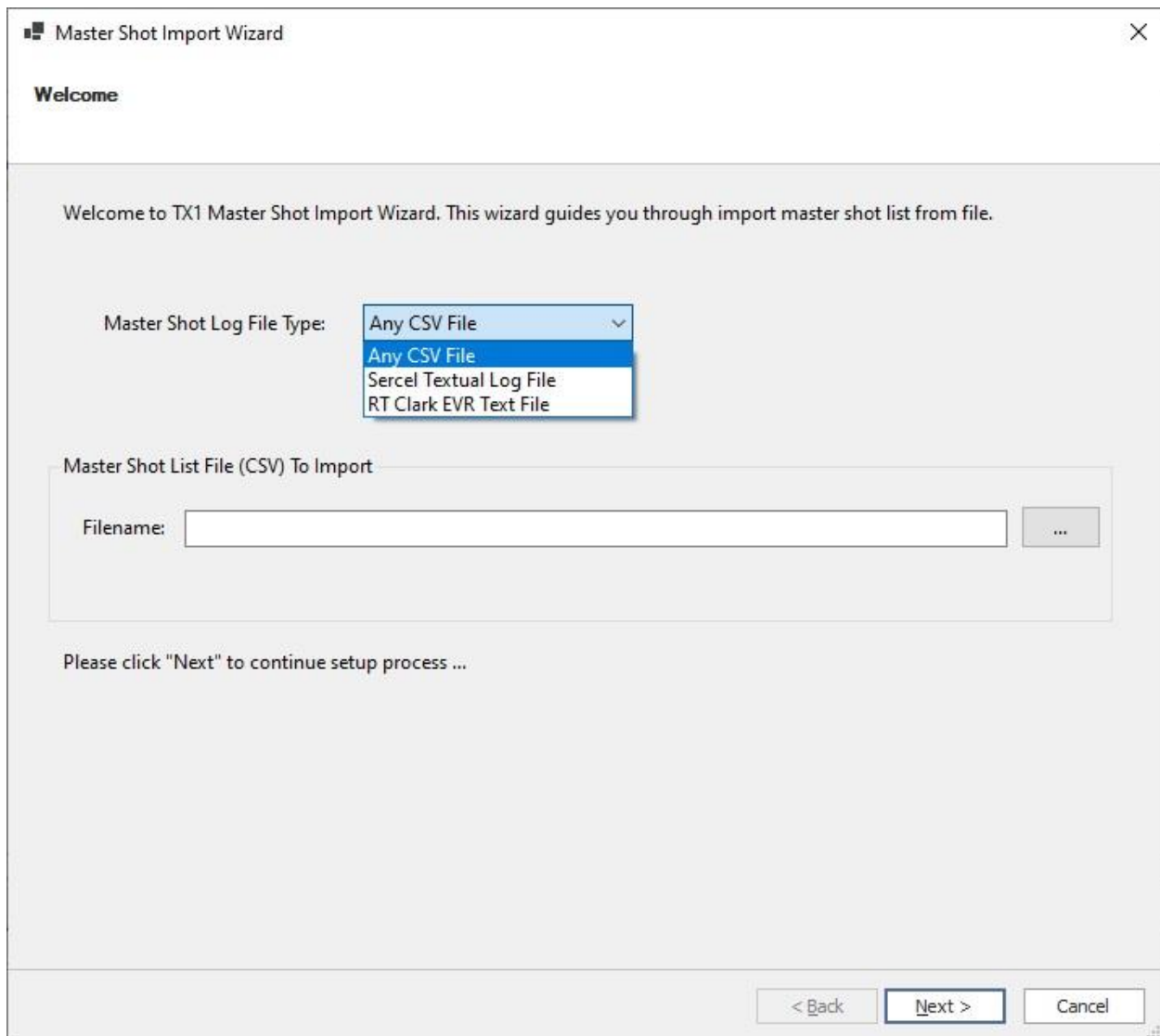
Currently We have the option to Import:

Any CSV (Follow MasterShotLog protocol)

Sercel Textual Shotlog (Provides by OB Logs generated by Sercel Software

RT Clark EVR Text file (Provided by RT Clark software app for thumper operations)

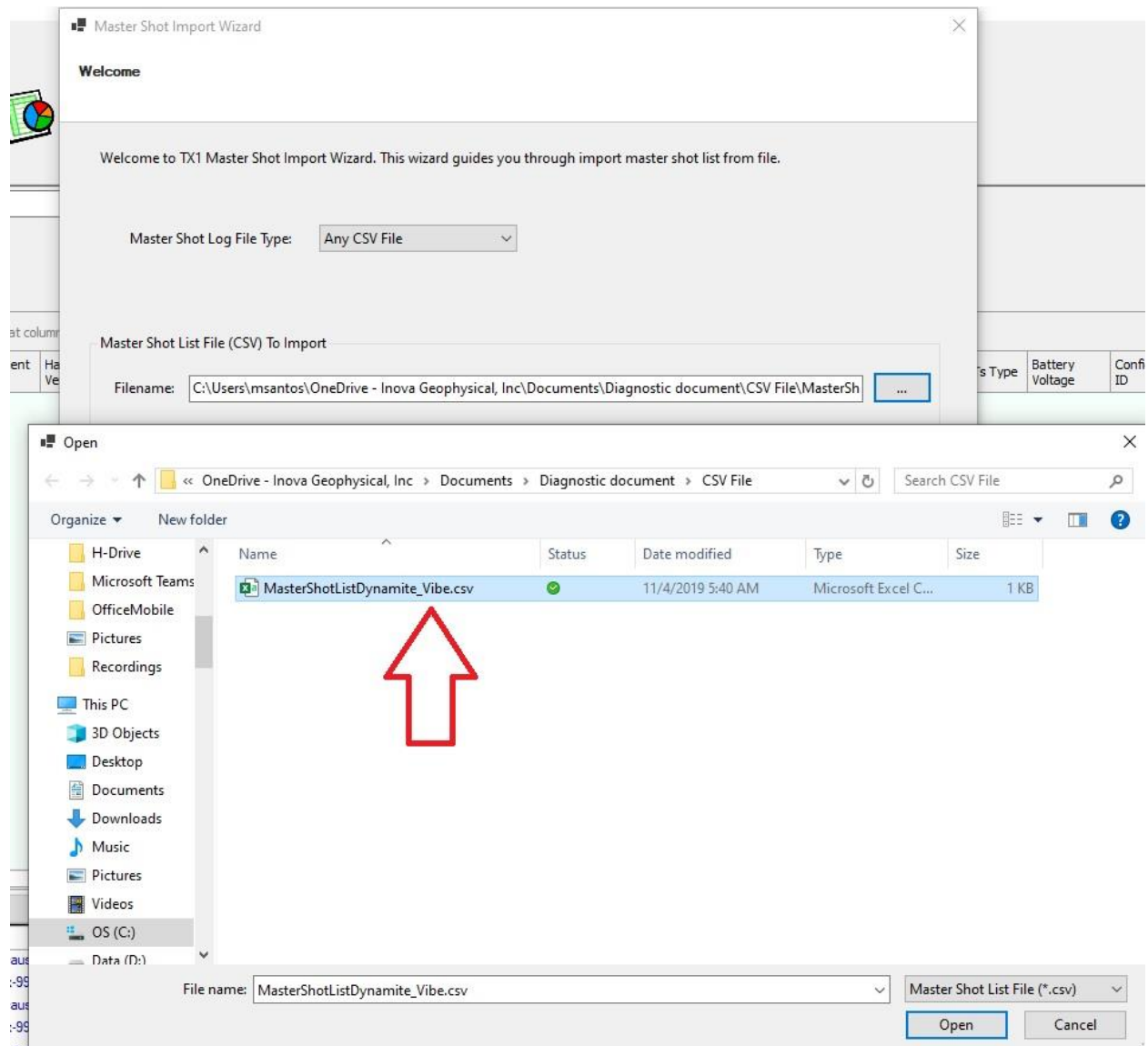
-Click on “Any CSV File”



The image shows a software dialog box titled "Master Shot Import Wizard". The window has a title bar with a close button (X) in the top right corner. Below the title bar, the word "Welcome" is displayed. The main content area contains the following elements:

- A welcome message: "Welcome to TX1 Master Shot Import Wizard. This wizard guides you through import master shot list from file."
- A label "Master Shot Log File Type:" followed by a dropdown menu. The dropdown is open, showing four options: "Any CSV File" (highlighted in blue), "Any CSV File", "Sercel Textual Log File", and "RT Clark EVR Text File".
- A section titled "Master Shot List File (CSV) To Import" containing a "Filename:" label and a text input field. To the right of the input field is a button with three dots "...".
- A prompt: "Please click 'Next' to continue setup process ..."
- At the bottom right, there are three buttons: "< Back", "Next >" (highlighted with a blue border), and "Cancel".

-Click on “Browse” and go to location where CSV shotlog file is located, Open and click “OK”




-Next Window will pop up displaying the “Field name” on left side of panel and “Column name” on right side of panel. At this time the software already has read your columns of your shotlog and pre-determined the naming protocol

-If any columns with an asterisk is missing a Column name you will have to click on the drop down menu and choose the proper column that matches the Field name as per below

Master Shot Import Wizard ×

Align Columns

File Column Mapping (* means required)

Field Name	Column Name
Timebreak Second (Unix Timestamp or DateTime)*	Timebreak Second (Unix TimeStamp or DateTime)
Timebreak Millisecond*	Timebreak (mSecs)
Timebreak Microsecond	
Shot Sequence Number*	Sweep Type (ShotPro, Linear, dbHz, dbOct, etc)
Shot ID*	Taper Type (BlackMan or Cosine)
EP number*	Timebreak (mSecs)
Sweep ID	Timebreak (uSecs)
Record Length (Sec or mSec)*	Timebreak Second (Unix TimeStamp or DateTime)
Sample Rate (mSec or uSec)*	Uphole Time (milliseconds)
Source Line*	Vibes (64-bit mask)
Source Station*	Source Line
Source Station*	Source Station
Source Type (Dynamite or Vibroseis)*	Source Type (Dynamite or Vibroseis)
Source Point Index	
Source Point Code	
Source X	Source X
Source Y	Source Y
Source Z	Source Z
Omit	Omit
File Type (Production or Wireline)	File Type
Uphole Time (mSecs)	Uphole Time (milliseconds)
Charge Depth (meters or feet)	
Charge size (kg or lbs)	

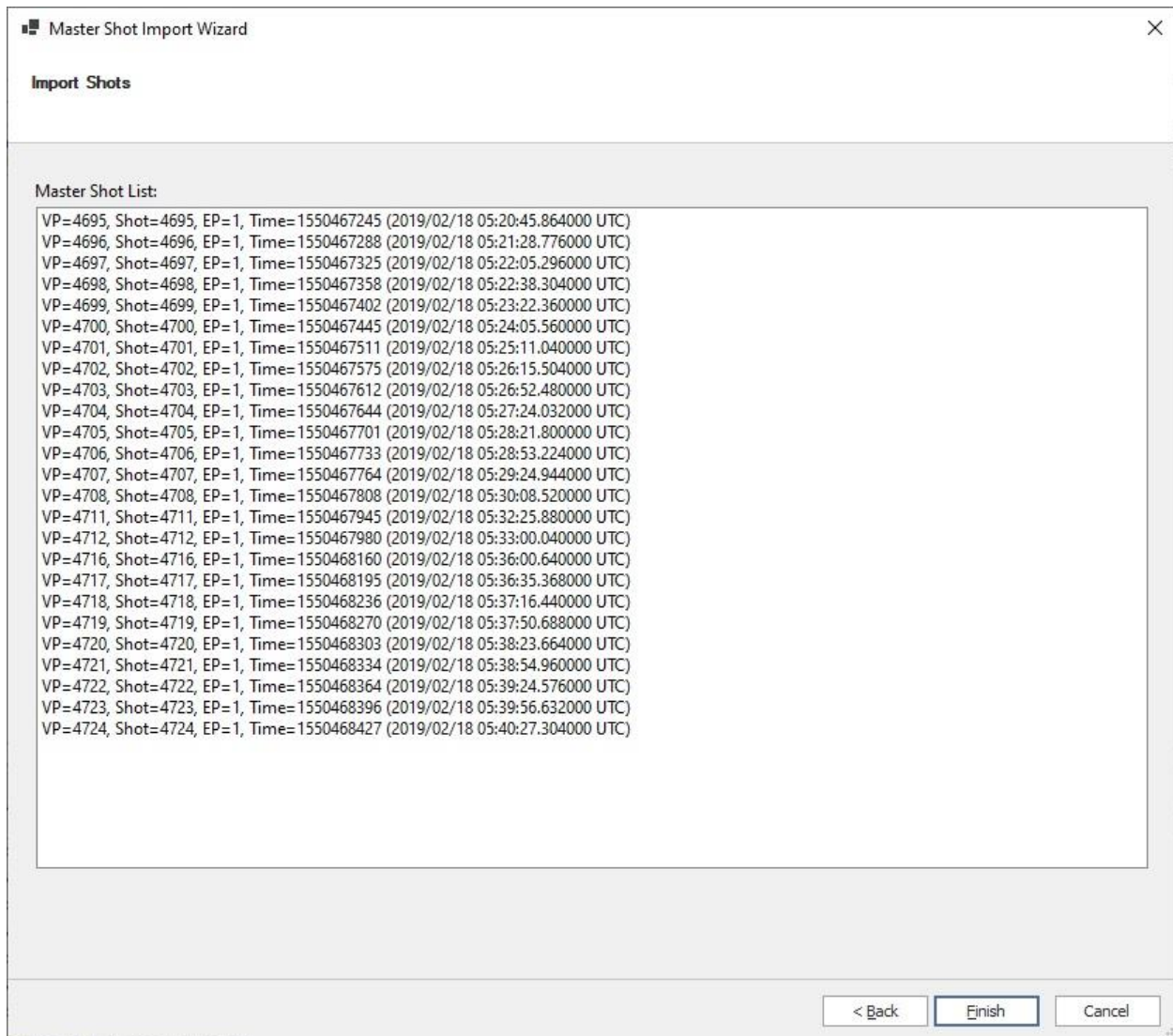
-Choose all relevant Columns to match any parameters that you want to include in shot log and click on “Next

-The following message will appear

-Click “yes” to continue (This message box is just warning that there are some Fields that don’t have any columns associated with anything)



-The next window to pop up will be the imported Shot log review.



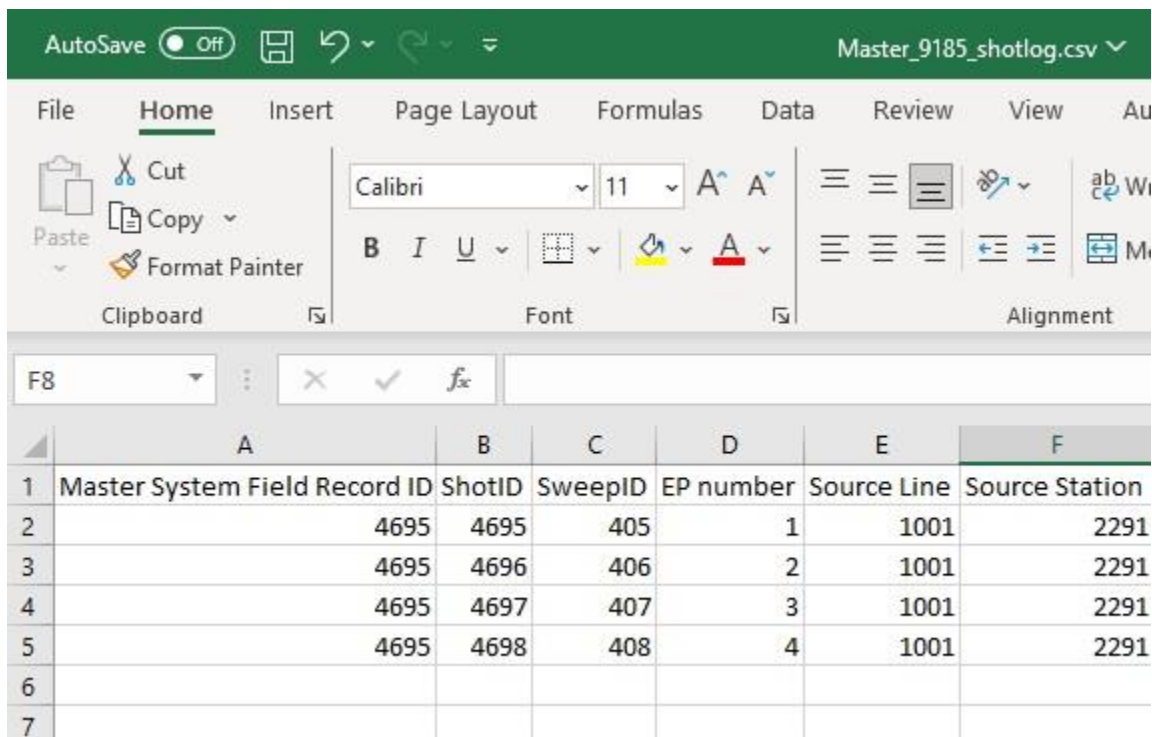
Special note:

When generating a shotlog with multiple EP, for example if a Shot point consists of 4 sweeps/shot.

The “Master SystemField Record ID” or “Shot Sequence” as it sometimes is called, should have the same ID as per below.

Shot ID and Sweep ID should be continuous ascending number.

EP number should be determined by how many sweeps per shot in this case there are 4 sweeps per VP so sequence is 1,2,3,4. 1,2,3,4..... If there were 2 sweeps/VP the sequence would be 1,2.1,2....



The screenshot shows the Microsoft Excel interface with the 'Home' tab selected. The ribbon includes options for Clipboard, Font, and Alignment. The active cell is F8. The spreadsheet contains the following data:

	A	B	C	D	E	F
1	Master System Field Record ID	ShotID	SweepID	EP number	Source Line	Source Station
2	4695	4695	405	1	1001	2291
3	4695	4696	406	2	1001	2291
4	4695	4697	407	3	1001	2291
5	4695	4698	408	4	1001	2291
6						
7						