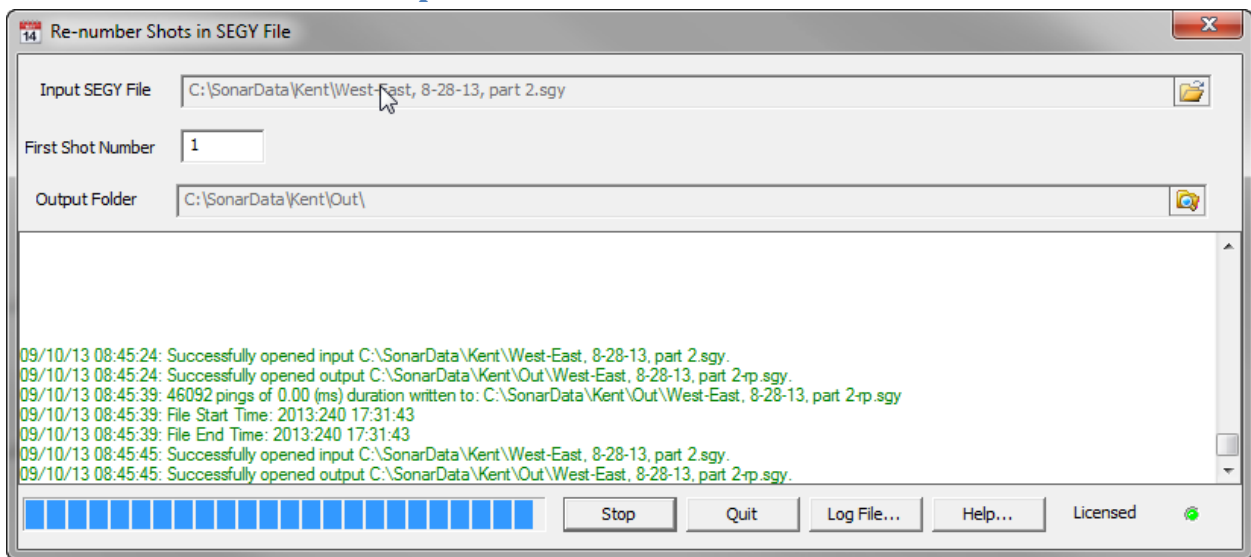


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# 1 SEGY Re-Ping Utility – SEGY\_RePing.exe

## 1.1 User Interface Description



The Chesapeake Technology Re-Ping utility is a tool that can be used to reassign ping numbers (shot numbers) to each SEG-Y trace in a conforming SEG-Y file. The two re-numbered fields within the SEG-Y file trace header will be bytes 1-4 (trace sequence number within line, SEQWL), and bytes 5-8 (trace sequence number within the file, SEQWR).

## 1.2 User Inputs

**Input SEGY File** – Browse for and select a single file to use as the input file. This file will not be changed, but a second output file will be created, if the SEGY\_RePing.exe run is successful. The utility looks for a SEG-Y file with the SGY extension in file-name format \*.SGY.

**First Shot Number**-The user must enter the first shot number to use. After that each shot or ping will have its number incremented by one.

**Output Folder**-Specify an output folder where (new) SEG-Y files will be written. The Re-Ping'd SEG-Y files will always be named the same as the original file but with the "-rp" for Re-Ping'd suffix appended to the file name.

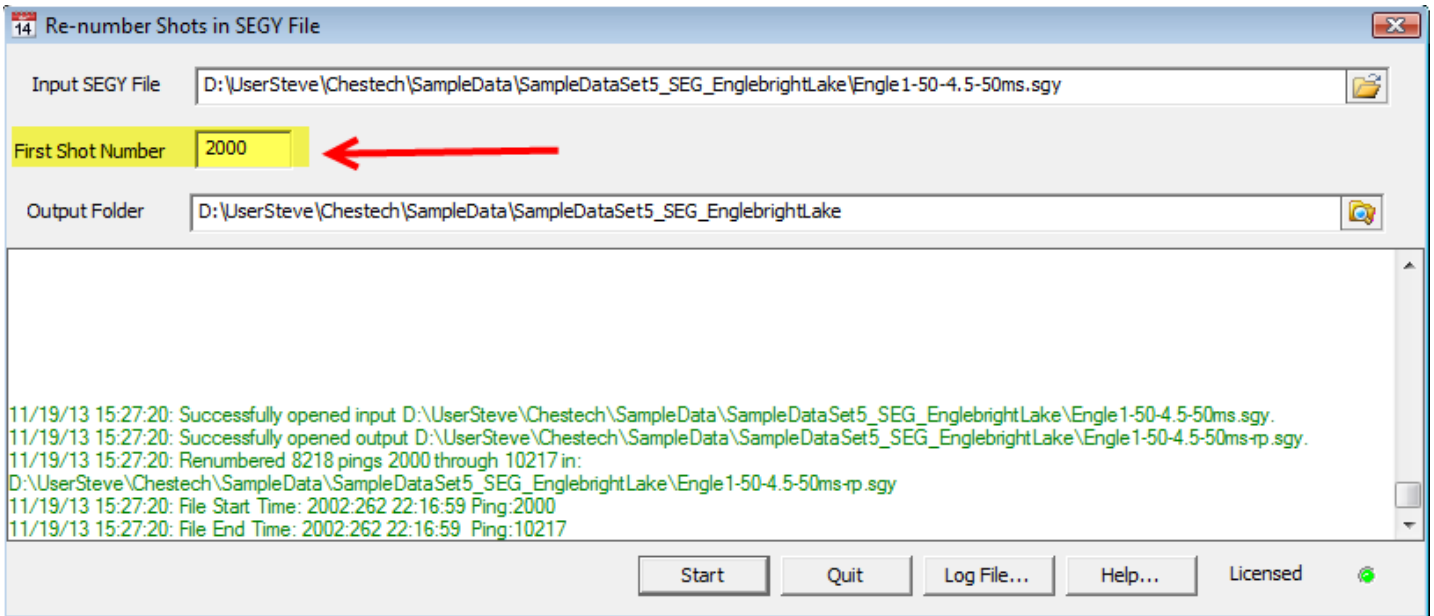
### 1.3 Example 1 – Sample Data Set 5 – Englebright Lake SEG file

This example SEG file comes from the [www.chestech-support.com](http://www.chestech-support.com) Sample Data area, and you can experiment with it yourself. Using the free utility SEISEE, you can see that the initial file contents show a sequentially incrementing value 1,2,3,4 ... for both SEQWL and SEQWR fields.

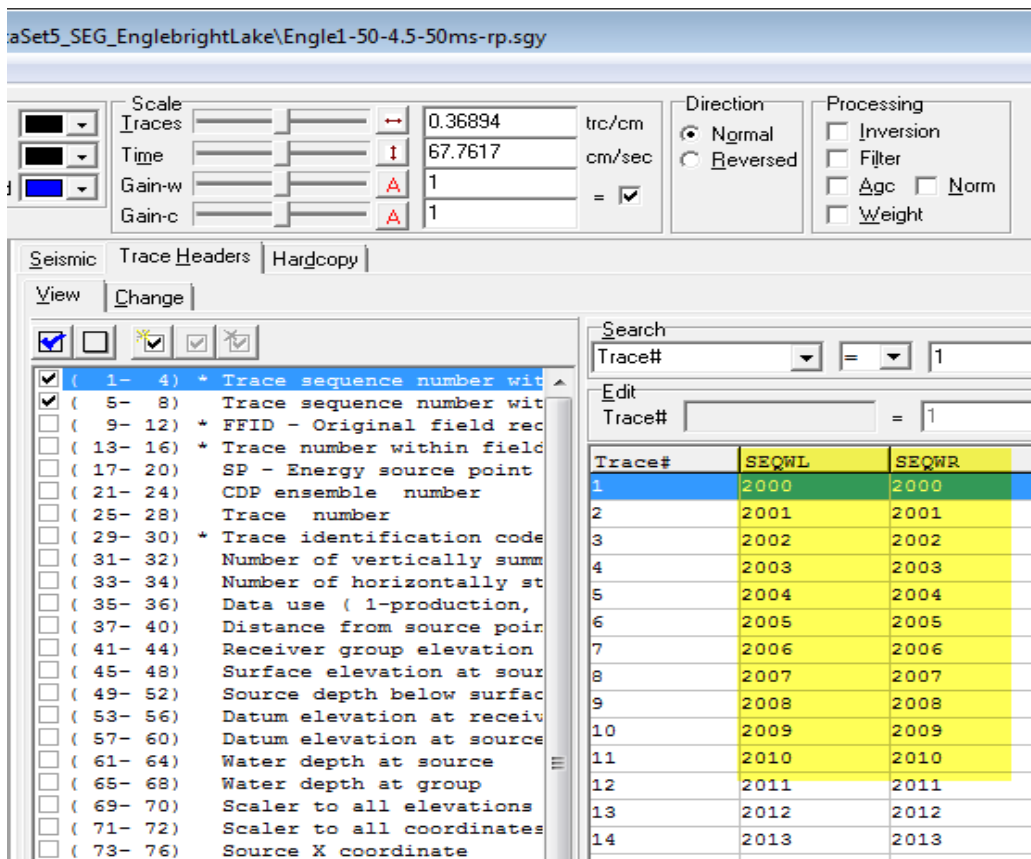
The screenshot shows the SEISEE software interface for the file 'taSet5\_SEG\_EnglebrightLake\Engle1-50-4.5-50ms.sgy'. The top panel contains various settings: Scale (0.36894 trc/cm), Time (67.7617 cm/sec), Gain-w (1), Gain-c (1), Direction (Normal), and Processing options (Inversion, Filter, Agc, Norm, Weight). Below this is a 'View' section with a list of parameters and their ranges, such as 'Trace sequence number with' (1-4), 'FFID - Original field rec' (9-12), and 'Trace number' (25-28). On the right, a 'Search' and 'Edit' section shows 'Trace#' set to 1. At the bottom right, a table displays the data for the first 19 traces, showing sequential values for SEQWL and SEQWR.

Trace#	SEQWL	SEQWR
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19

To reset these to start counting at the value 2000, we use SEGY\_RePing.exe like this:



The resulting file can then be viewed in SEISSE and we see that the trace sequence numbers now start at 2000:



It's a simple repair, but may really help your SEG file import into some applications.