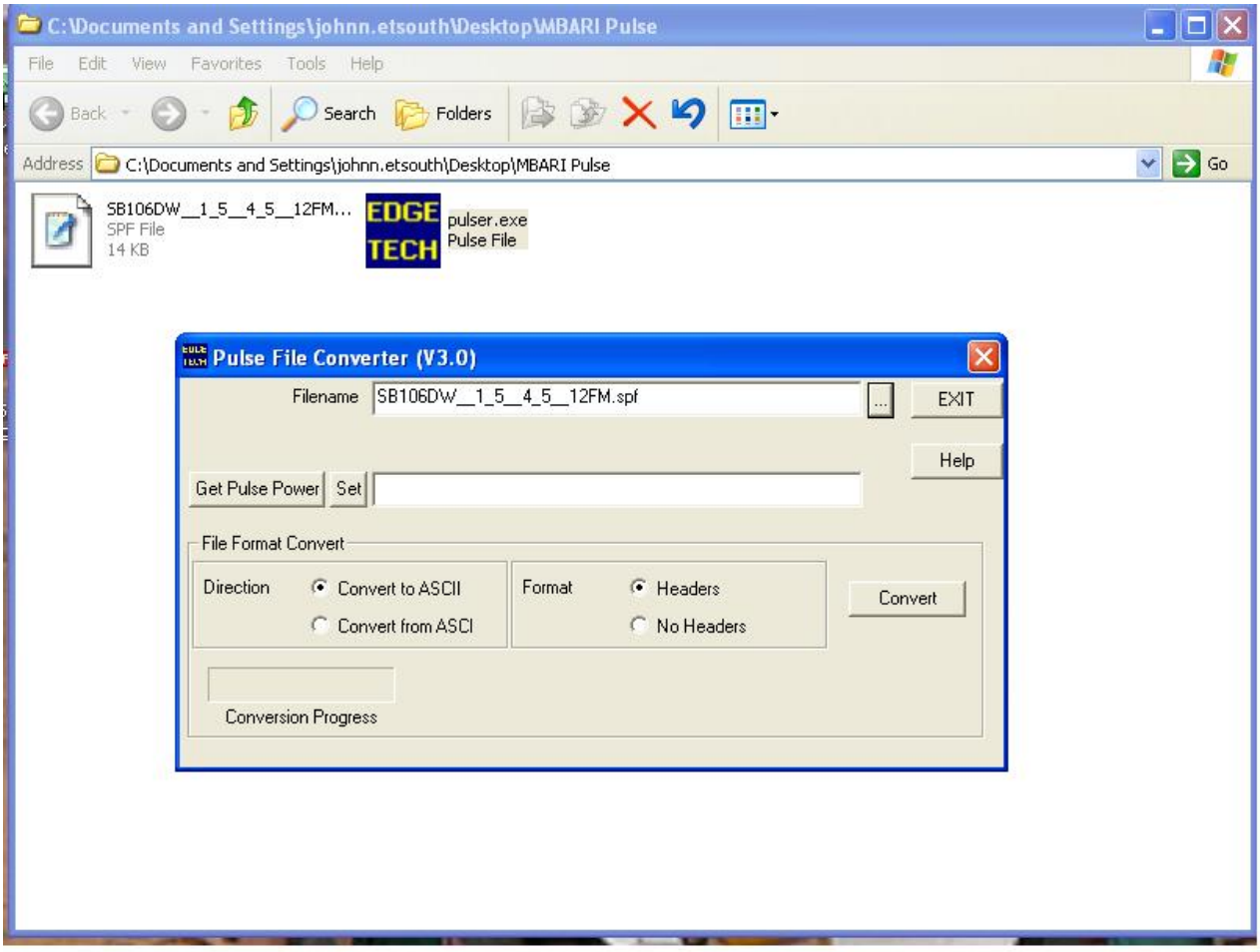
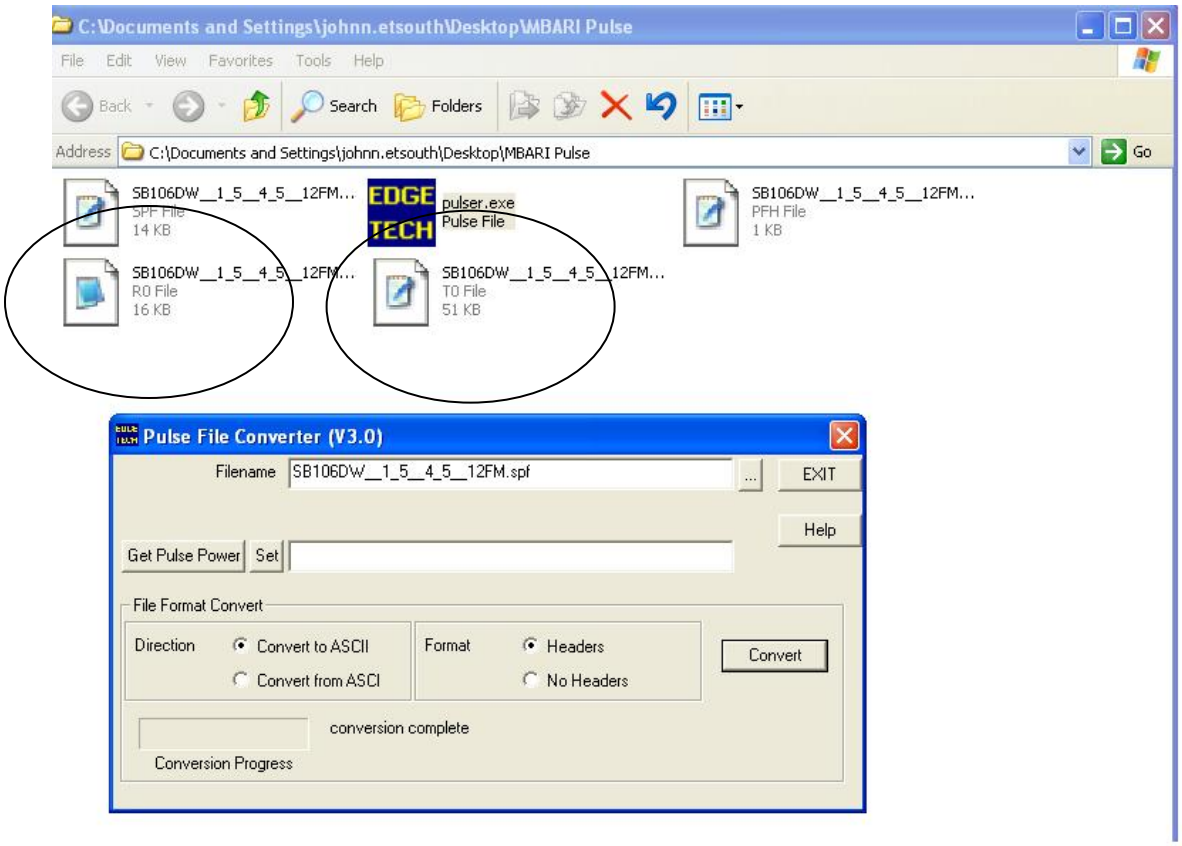
Purpose:

To Reduce the Direct Path Reverberation via Annihilation within the Sub Bottom Pulse

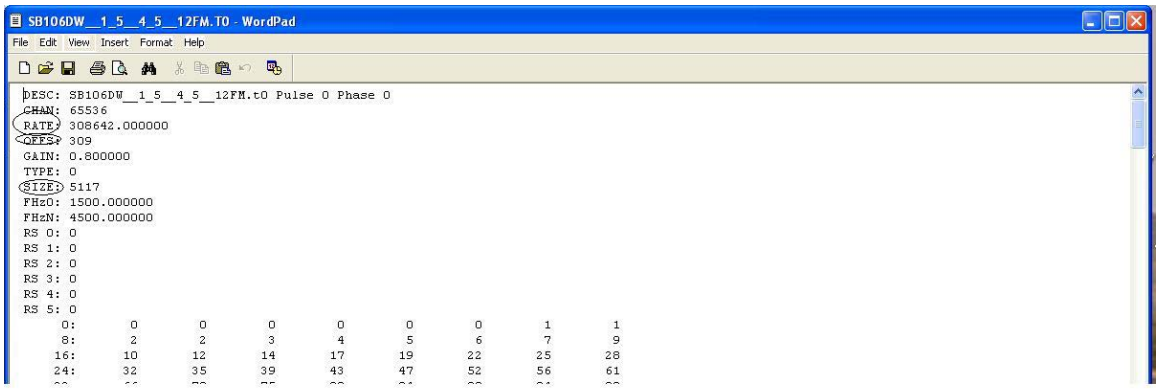
To change the annihilation setting in the sub bottom pulse you must perform the following steps:
Locate the pulse file in the sonar folder\Sub bottom pulse folder then you should change the name of the file but keep the spf extension.
Using the newly named .spf file open the Sub Bottom pulse folder and start the pulser.exe program located in the sub bottom pulse folder
Click the browse (…) button to browse and open a pulse file.



Verify the Convert to ASCII in Direction is checked and also Headers is selected in Format.
Click on Convert. When the conversation is completed look in the folder for a file that ends with .T0



In this case: SB106DW__1_5__4_5__12FM.t0 (you may need to select word pad to view the file) Next locate **RATE, OFFS** and **SIZE**

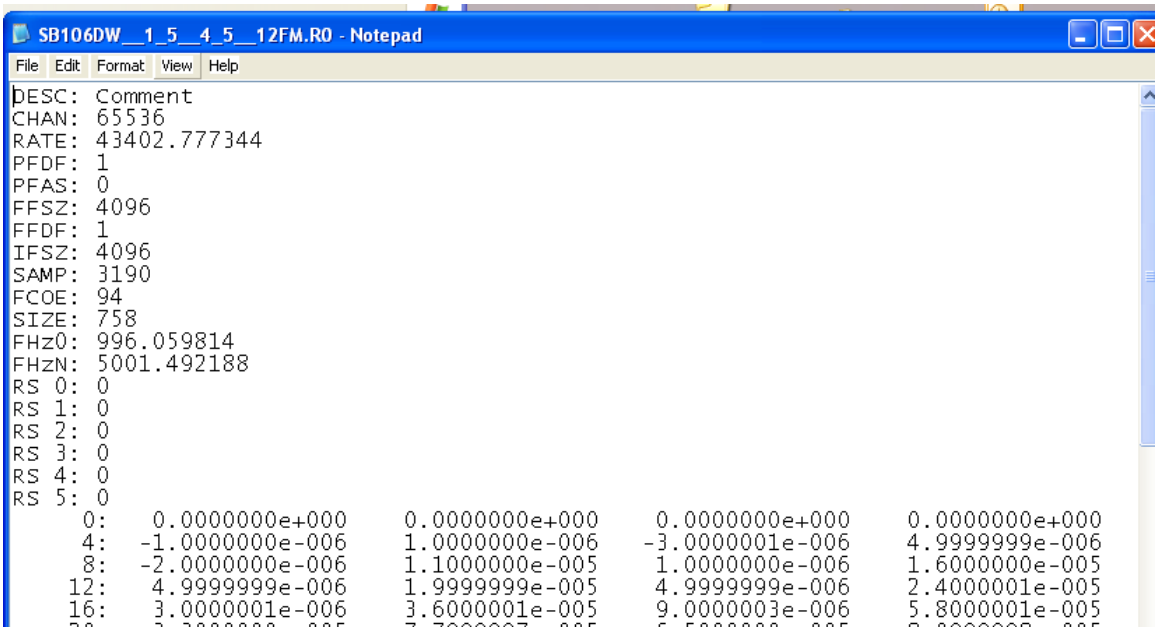


Perform the following calculations:
Pulselength in seconds = (offset + size) / rate
Write down the result of the calculation.

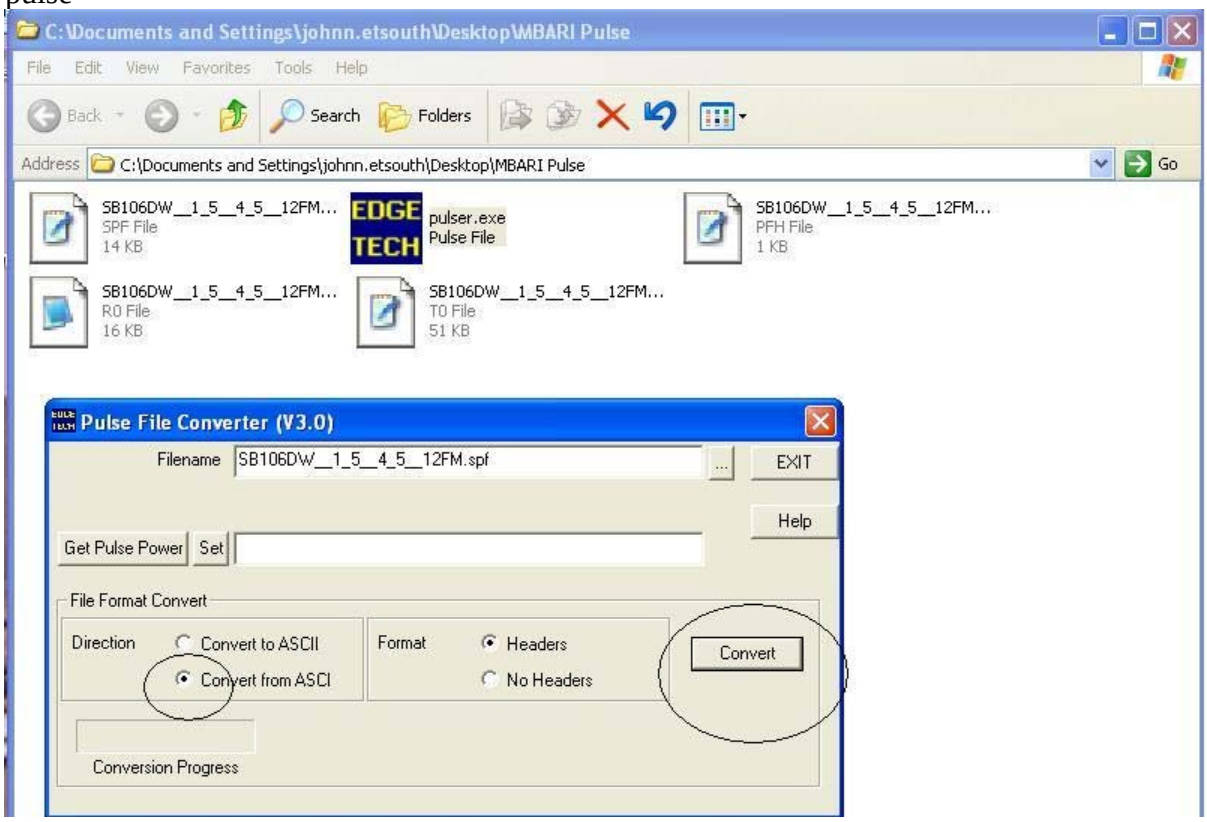
Next open the file that ends with R0 and locate the **RATE** field from this file.

Perform the following calculation
PFAS = (Pulselength in seconds + Reverb margin .001ms) * Rate

Insert this value in the **PFAS**
Save the R0 file.



Use pulser.exe to re-pack the pulse



After the conversation is completed test the pulse.