

GeoFinder – Epsip

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First time execution

- A zip file containing a “.bat” file will be downloaded from the <https://nhp-ng.com> web site
- Unzip this file to a directory of your choice:
 - for example c:\geofinder
- Navigate to the directory on your hard drive where you stored the GeoFinder batch file:
 - In the command line: `cd c:\GeoFinder`
 - or in MSWindows use the Explorer
- To execute geofinder-epsip:
 - In the command line type: `GeoFinder-Epsip.bat`
 - or in MSWindows double click on the GeoFinder-Epsip.bat file

Note: ALWAYS use this method to execute GeoFinder_Epsip

There are system resources that are connected via the batch file and the newest version will be download if required.

Execute GeoFinder_Epsip

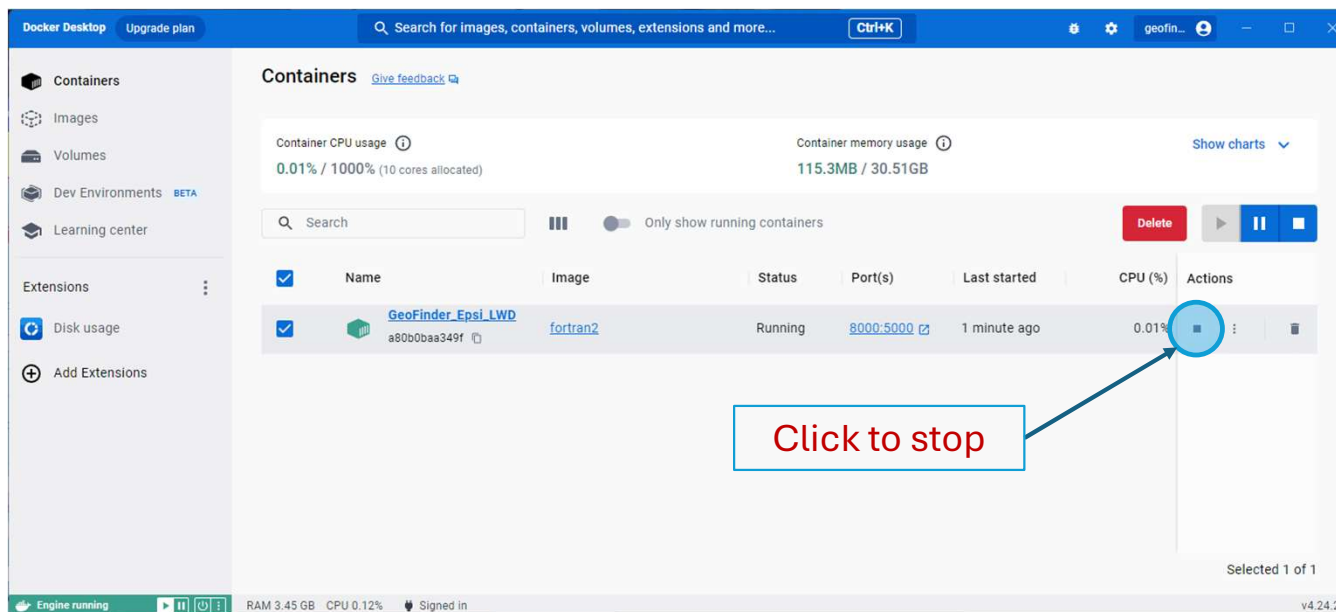
- The first time the “.bat” file is executed it will download the Docker Image from the Docker Hub.
- The image will then run
- Always use the “.bat” file to execute the GeoFinder-Epsip application
- The batch file will download a new image if there is one available.

The GeoFinder-Epsip Home Screen

- After executing the GeoFinder Docker desktop container...
- Open your browser (Chrome, Edge etc.) and enter the address:
<http://127.0.0.1:8000/home>
- This web page is running from your local computer
- There is no internet or local network communication
- You may want to add this address on your browser favorites

Stopping the GeoFinder-Epsip Application

To terminate the GeoFinder application “stop” in the Docker desktop client as shown



Alternatively,

- Go to the Command Window
- Ensure the window is selected (click in it) and then type “ctrl c” (the control key and the c key at the same time).

The Home Screen

- The workflow is from top to bottom and generally from left to right
- Start with the checkboxes at the top of the screen
- However, without a valid license you will not be able to proceed to run the inversion

[Goto License Slide](#)

GeoFinder™ Epsi LWD : Dielectric V8.1.116

Start Here

Real Time Data ☐ Memory Data ☒ CRIM ☒ Not CRIM ☐ Sonde Naming

Sonde Size: Choose a Sonde:

Channels:

Choose LAS file: No file chosen

☐ Sonde Selected ☐ LAS Selected ☐ LAS Valid ☒ License Valid

LAS Start Depth LAS End Depth LAS Total Depth Units

Use Valid ☐ Valid Start Depth Valid End Depth Valid Total Depth

Override Valid ☐ Inv. Start Depth Inv. End Depth Inv. Total Depth

License License Count

Select a Sonde !

Choose License file: No file chosen

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Realtime/ Memory & CRIM/Not CRIM

- The checkboxes at the top allow the user to define the content of the LAS file that will be used
- Select either Realtime or Memory
- Select CRIM or Not CRIM
- In the example on the right, Realtime and CRIM was selected

GeoFinder™ Epsi LWD : Dielectric V8.1.116

Real Time Data ☒ Memory Data ☐ CRIM ☒ Not CRIM ☐ Sonde Naming

Sonde Size: Select Choose a Sonde: Select Set Sonde View Download Tool Spec.

Channels: --

Choose LAS file: Choose File No file chosen Upload

☐ Sonde Selected ☐ LAS Selected ☐ LAS Valid ☒ License Valid

Check LAS

Use Valid Valid Start Depth Valid End Depth Valid Total Depth Units

0 0 0 --

Override Valid Inv. Start Depth Inv. End Depth Inv. Total Depth

0 0 0

License Request License Count 63881 Inversion Reset GUI

Mode = Realtime + CRIM

Choose License file: Choose File No file chosen Add License Version Help

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User Documents

- There are two documents to assist in guiding the user
- The first “Sonde Naming” gives a description of how each file is named
- The second “Tool Spec” details the content of a Sonde file
- Both files are PDF and can be downloaded and printed

The screenshot shows the GeoFinder™ Epsi LWD : Dielectric software interface, version V8.1.116. The interface is blue and contains various controls for data acquisition and processing. A yellow arrow points to the 'Sonde Naming' button, which is located in the top right area of the interface. Other buttons include 'Tool Spec.', 'Set Sonde', 'View', 'Download', 'Check LAS', 'Use Valid', 'Override Valid', 'License Request', 'Inversion', 'Reset GUI', 'Add License', 'Version', and 'Help'. The interface also displays fields for 'Channels', 'Choose LAS file', 'LAS Start Depth', 'LAS End Depth', 'LAS Total Depth', 'Valid Start Depth', 'Valid End Depth', 'Valid Total Depth', 'Inv. Start Depth', 'Inv. End Depth', 'Inv. Total Depth', 'License Count', and 'Units'. The 'Mode' is set to 'Realtime + CRIM'.

Sonde Size

- The “Sonde Size” dropdown allows the user to select the tool size
- In the example to the right, 6.75” has been selected
- The Sonde Size dropdown changes the content of the “Choose Sonde” dropdown list

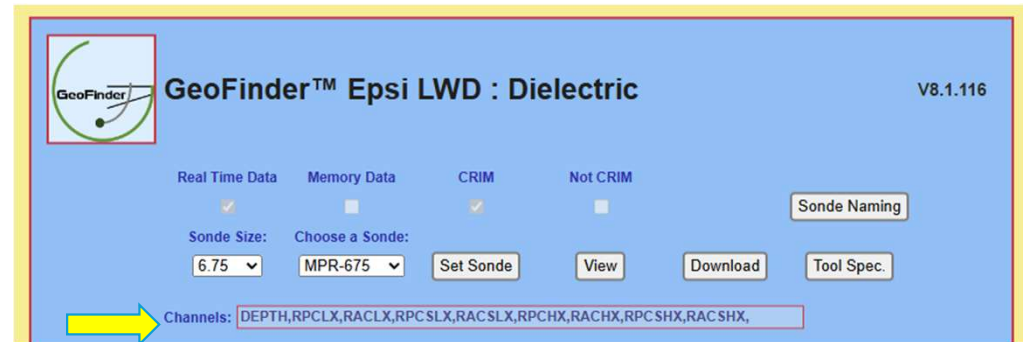


Choose a Sonde File

- Select a Sonde file from the “Choose a Sonde” dropdown list
- Click on the “Set Sonde” button
- The channels that will be expected to be present in the LAS file are shown in the “Channels” textbox
- All of these channels must be present in the LAS file when it is selected



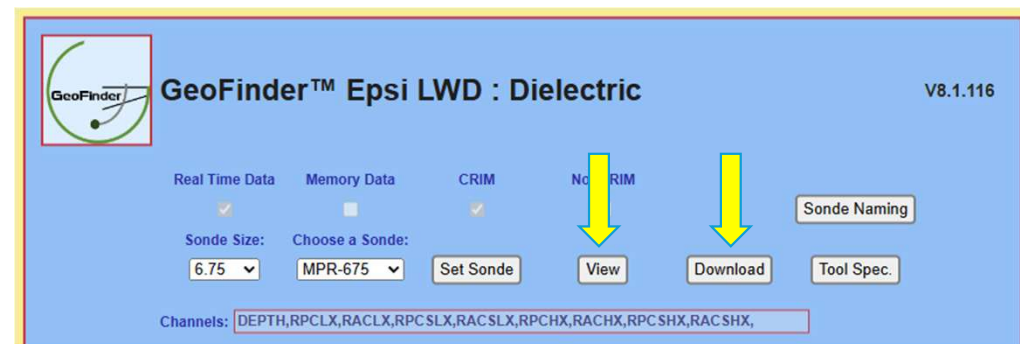
The screenshot shows the GeoFinder™ Epsi LWD : Dielectric software interface. The title bar includes the GeoFinder logo, the text "GeoFinder™ Epsi LWD : Dielectric", and the version "V8.1.116". The interface has a blue background. At the top, there are four tabs: "Real Time Data" (checked), "Memory Data", "CRIM" (checked), and "Not CRIM". Below these tabs, there are two dropdown menus: "Sonde Size" (set to "6.75") and "Choose a Sonde:" (set to "MPR-675-2.sde"). A yellow arrow points to the "Choose a Sonde:" dropdown. To the right of these dropdowns are buttons: "Set Sonde", "View", "Download", and "Tool Spec.". Further right is a "Sonde Naming" button. At the bottom, there is a "Channels:" label followed by a text box containing "--".



This screenshot shows the same GeoFinder™ Epsi LWD : Dielectric software interface, but with the "Channels" text box populated. The "Channels:" label is followed by a text box containing the text "DEPTH,RPCLX,RACLX,RPCSLX,RACSLX,RPCHX,RACHX,RPCSHX,RACSHX,". A yellow arrow points to the "Channels:" label.

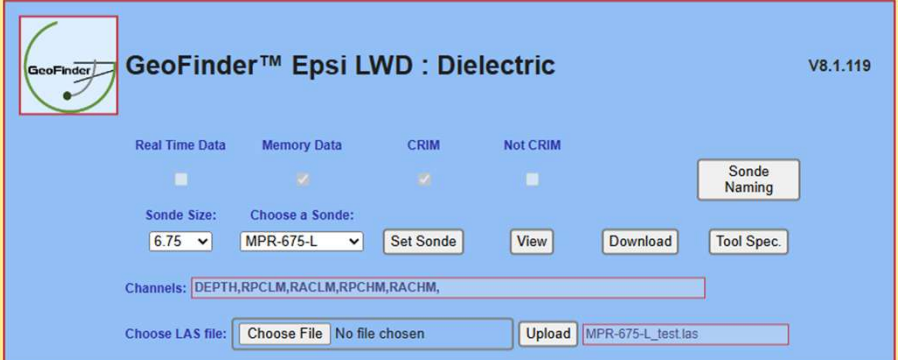
View and Download

- Once a Sonde File has been “Set” there are two options that may be available
- If the Sonde File is not “Private” then “View” and “Download” options will be available
- As their name suggests the user can View the contents of the selected Sonde file or download the Sonde file



Choose a LAS File

- Next select an input LAS file
- In the example on the right, a file called MPR-675-L.las was selected
- The LAS file must be V2 compliant
- When choosing a file, the user is presented with a file dialog for the user to select a LAS file
- When the file has been selected the user must click on “Upload” so that the application can open the file
- The file uploaded is shown in the textbox
- You will note that at this time both “Sonde Selected” and “LAS Selected” will have tick marks



Before proceeding it is important to note that the License Valid checkbox is also ticked. If it is not ticked, then proceed to:
[Request License File](#)

Check LAS

- When the LAS file has been Uploaded the “Check LAS” button will become active
- Click on the “Check LAS” button
- This step validates the LAS file contents
- If the LAS file is valid then the LAS Depths boxes will become populated
- If the LAS file is not valid then a file will be uploaded to the browser. This file will show what is missing
- Missing items may be a channel or a LAS V2 required section

GeoFinder™ Epsi LWD : Dielectric V8.1.116

Real Time Data Memory Data CRIM Not CRIM

Sonde Naming

Sonde Size: 6.75 Choose a Sonde: MPR-675-L Set Sonde View Download Tool Spec.

Channels: DEPTH,RPCLM,RACLM,RPCHM,RACHM,

Choose LAS file: Choose File No file chosen Upload MPR-675-L_test.las

☒ Sonde Selected ☒ LAS Selected ☒ LAS Valid ☒ License Valid

Check LAS

LAS Start Depth	LAS End Depth	LAS Total Depth	Units
7690.0	9646.75	1956.75	ft
Valid Start Depth	Valid End Depth	Valid Total Depth	
7691.5	9592.5	1901	

It can be seen that the following checkboxes are now checked:

- *Sonde Selected*
- *LAS Selected*
- *LAS Valid*
- *License Valid*

When Check LAS Fails...

- If a text file was downloaded when the check LAS button was clicked, it will describe the problem with the LAS file.

```
Found All Sections: False  
Las Sections: {'~VERSION': True, 'WRAP': True, '~WELL': True, '~PARAMETER': False, '~CURVE': True, '~A': True}  
Channels Missing: ['RPCLM']
```

- Here we can see that the expected channel “RPCLM” was not found...
- You will note that the “Parameter” section was missing. The Parameter section is allowed to be missing and will not generate this error.

Setting the Inversion Depth

- The Inversion Depth, the range of depth to be processed, must now be set
- It can be seen that the LAS file start and end depths are listed
- Next there is the valid start and end depths
- Valid depths are the depths at which there are no NULL values (-999.25)
- You have two choices
 1. Click the checkbox “use valid”
 2. Enter your own depth range
- The override checkbox allows the user to enter depths outside of the valid range but inside the LAS range
- The Inv Total Depth will be computed for you
- It is normal to click “Use Valid”

GeoFinder™ Epsi LWD : Dielectric V8.1.119

Real Time Data Memory Data CRIM Not CRIM

Sonde Naming

Sonde Size: 6.75 Choose a Sonde: MPR-675-L Set Sonde View Download Tool Spec.

Channels: DEPTH,RPCLM,RACLM,RPCHM,RACHM,

Choose LAS file: Choose File No file chosen Upload MPR-675-L_test.las

✓ Sonde Selected ✓ LAS Selected ✓ LAS Valid ✓ License Valid

Check LAS

Use Valid

Override Valid

LAS Start Depth	LAS End Depth	LAS Total Depth	Valid Start Depth	Valid End Depth	Valid Total Depth	Inv. Start Depth	Inv. End Depth	Inv. Total Depth
7690.0	9646.75	1956.75	7691.5	9592.5	1901			

Units: ft

Executing the Inversion

- We are now ready to process the data!
- When the “Inv” depths are valid then the “Inversion” button will become active
- Click on the “Inversion” button
- After just a few seconds a file will be downloaded to your browser’s downloads folder
- The file will be called:
LWDprt-DielecInv.zip



The image shows the GeoFinder™ Epsi LWD : Dielectric software interface, version V8.1.119. The interface is designed for processing LWD data and performing dielectric inversion. It includes a header with the GeoFinder logo and title. Below the header, there are four radio buttons for data type selection: Real Time Data, Memory Data (selected), CRIM, and Not CRIM. A 'Sonde Naming' button is located to the right. The 'Sonde Size' is set to 6.75, and the 'Choose a Sonde' dropdown is set to MPR-675-L. There are buttons for 'Set Sonde', 'View', 'Download', and 'Tool Spec.'. The 'Channels' field is set to 'DEPTH,RPCLM,RACLM,RPCHM,RACHM,'. The 'Choose LAS file:' section has a 'Choose File' button, a 'No file chosen' status, an 'Upload' button, and a text field containing 'MPR-675-L_test.las'. Below this, there are four status indicators: 'Sonde Selected' (checked), 'LAS Selected' (checked), 'LAS Valid' (checked), and 'License Valid' (checked). A 'Check LAS' button is present. The 'Use Valid' checkbox is checked, and the 'Override Valid' checkbox is unchecked. The interface displays a table of depths: LAS Start Depth (7690.0), LAS End Depth (9646.75), LAS Total Depth (1956.75), Valid Start Depth (7691.5), Valid End Depth (9592.5), Valid Total Depth (1901), Inv. Start Depth (7691.5), Inv. End Depth (9592.5), and Inv. Total Depth (1901). The 'License Count' is 63881. At the bottom, there are buttons for 'Request', 'Inversion', and 'Reset GUI'.

GeoFinder™ Epsi LWD : Dielectric V8.1.119

Real Time Data Memory Data CRIM Not CRIM

Sonde Naming

Sonde Size: 6.75 Choose a Sonde: MPR-675-L Set Sonde View Download Tool Spec.

Channels: DEPTH,RPCLM,RACLM,RPCHM,RACHM,

Choose LAS file: Choose File No file chosen Upload MPR-675-L_test.las

✓ Sonde Selected ✓ LAS Selected ✓ LAS Valid ✓ License Valid

Check LAS

Use Valid

Override Valid

License Request

Valid Start Depth 7691.5 Valid End Depth 9592.5 Valid Total Depth 1901

Inv. Start Depth 7691.5 Inv. End Depth 9592.5 Inv. Total Depth 1901

License Count 63881

Inversion Reset GUI

The contents of the Zip File

 MPR-675-L_test.las.csv	9/30/2025 10:37 PM	Microsoft Excel C...	1,187 KB
 MPR-675-L_test.las.inp	9/30/2025 10:37 PM	INP File	439 KB
 MPR-675-L_test.las.out	9/30/2025 10:37 PM	OUT File	1,873 KB
 MPR-675-L_test.las-log.txt	9/30/2025 10:37 PM	TXT File	1 KB
 MPR-675-L_test_dielectric.las	9/30/2025 10:37 PM	LAS File	1,888 KB

- The .inp is the file converted from LAS to text and is the inversion input file
- The .out file is the inversion output data in text format
- The .csv file is the inversion output data in comma separated value format
- The .las file is the inversion output data in LAS V2 format
- The .txt file is a process output file in text format giving information about the inversion

Reset the GUI

- Now we have completed the execution of the inversion we must reset the Graphical User Interface (GUI) before it can be used again
- Click on the “Reset GUI” button
- This updates the License Count
- This also deletes any files that were used in the processing
- You can select a sonde size and type as before

GeoFinder™ Epsi LWD : Dielectric V8.1.119

Real Time Data Memory Data CRIM Not CRIM

Sonde Naming

Sonde Size: 6.75 Choose a Sonde: MPR-675-L Set Sonde View Download Tool Spec.

Channels: DEPTH,RPCLM,RACLM,RPCHM,RACHM,

Choose LAS file: Choose File No file chosen Upload MPR-675-L_test.las

	LAS Start Depth	LAS End Depth	LAS Total Depth	Units
Check LAS	7690.0	9646.75	1956.75	ft
Use Valid	Valid Start Depth	Valid End Depth	Valid Total Depth	
☒	7691.5	9592.5	1901	
Override Valid	Inv. Start Depth	Inv. End Depth	Inv. Total Depth	
☐	7691.5	9592.5	1901	
License	License Count	Inversion	Reset GUI	
Request	63881			

Quitting GeoFinder

To stop the GeoFinder application click on “Stop” denoted by the arrow in the diagram.

☐	Name	Container ID	Image	Port(s)	Actions
☐	GeoFinder_Epsi	a9dcfe962081	epsi_lwd	8000:5000 ↗	 ⋮ 



Stop

Requesting a License

- You need to have a license Count greater than “0” to process a LAS file and the License Count (feet) has to be greater than the number of log feet you wish to process.
- To Request a License click on the “Request” button.

GeoFinder™ Epsi LWD : Home

Choose a Sonde:

Choose LAS file:

☐ Sonde Selected ☐ LAS Selected ☐ LAS Valid ☐ License Valid

Check LAS	LAS Start Depth	LAS End Depth	LAS Total Depth	Units
	0	0	0	--
	Valid Start Depth	Valid End Depth	Valid Total Depth	
	0	0	0	
Inversion	Inv. Start Depth	Inv. End Depth	Inv. Total Depth	Use Valid
				☐
Reset GUI	License Count	License		
	0	Request	Help	Quit

Select a Sonde !

Choose License file:

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The Request License File Page

- The license is requested by generating a request file.
- The email address is important as this is the email address that the license will be sent to.
- The number of wells and the feet per well given the total number of feet being requested for the license.
- The Approx License Cost indicates the amount that will be invoiced for the license.

GeoFinder™ Epsi LWD : License Request

Email Address

Number of Wells

Processing depth per well (ft)

Total Requested (ft)

Approx. License Cost

Terms and Conditions

By sending the license_request.bin file to the NoHiddenPay License department you agree to pay for the license file to use the GeoFinder application.

Further, you understand that authorization for you to request a license for the GeoFinder application will be confirmed with your organization prior to a license file being sent to you.

The license file will be sent to the email address contained in the license request file.

The license file is unique to each installation of the GeoFinder application. The license file will only work with the installation of GeoFinder that generated it.

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The License File

- Once you have generated the license request file you can click on the Return button
- The license request file will be downloaded to your browser
 - license_request.bin
- This is an encrypted file.
- Send the file to:
license@nohiddenpay.com



The image shows a web form titled "GeoFinder™ Epsi LWD : License Request". It includes a "GeoFinder" logo in the top left. The form contains several input fields: "Email Address" (pre-filled with "license@nohiddenpay.com"), "Number of Wells" (50), "Processing depth per well (ft)" (2000), "Total Requested (ft)" (100000), and "Approx. License Cost" (\$350000 USD). There is a "Generate Request" button. Below this is a "Return" button and a text box containing the instruction "Email license_request.bin file to license@nohiddenpay.com". The form also includes "Terms and Conditions" text, a footer with "NoHiddenPay LLC (2023) www.NoHiddenPay.com", and a logo for "nhp" in the bottom right corner.

GeoFinder™ Epsi LWD : License Request

Email Address: license@nohiddenpay.com
Number of Wells: 50
Processing depth per well (ft): 2000
Total Requested (ft): 100000
Approx. License Cost: \$350000 USD

Email license_request.bin file to license@nohiddenpay.com

Terms and Conditions
By sending the license_request.bin file to the NoHiddenPay License department you agree to pay for the license file to use the GeoFinder application.

Further, you understand that authorization for you to request a license for the GeoFinder application will be confirmed with your organization prior to a license file being sent to you.

The license file will be sent to the email address contained in the license request file.

The license file is unique to each installation of the GeoFinder application. The license file will only work with the installation of GeoFinder that generated it.

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Adding a new License File

- When the license has been approved it will be emailed to you. The file will bear the same email name that was used to request the license:
 - youremail.com-28242996.lic
- Click on choose file and find the license file that was sent to you and then click on “Add License”

GeoFinder™ Epsi LWD : Home

Choose a Sonde: Select Set Sonde View Download

Choose LAS file: Choose File No file chosen Upload

☐ Sonde Selected ☐ LAS Selected ☐ LAS Valid ☒ License Valid

Check LAS

LAS Start Depth	LAS End Depth	LAS Total Depth	Units
0	0	0	--
Valid Start Depth	Valid End Depth	Valid Total Depth	
0	0	0	
Inv. Start Depth	Inv. End Depth	Inv. Total Depth	Use Valid
			☐

Inversion

Reset GUI

License Count: 0 License: Request Help Quit

Select a Sonde !

Choose License file: Choose File pswinburne....28242996.lic Add License Version

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A Valid License File

- If all is well, then a page similar to this will be shown
- Click on “**Add License File**” button to add the new count to the application
- For the license to be valid it **must** be installed in the GeoFinder application instance that generated the request and the email address must match



Successful License Install

- The successful install of the license will show the new License Count added to the previous license count.

The screenshot displays the 'GeoFinder™ Epsi LWD : Home' web interface. At the top left is the GeoFinder logo. The main content area has a light blue background. Below the title, there are controls for 'Choose a Sonde' (a dropdown menu with 'Select' and buttons for 'Set Sonde', 'View', and 'Download'). Below that is 'Choose LAS file:' with a 'Choose File' button, 'No file chosen' text, and an 'Upload' button. A row of checkboxes shows 'Sonde Selected', 'LAS Selected', 'LAS Valid', and 'License Valid' (which is checked). On the left side, there are buttons for 'Check LAS', 'Inversion', and 'Reset GUI'. In the center, there are input fields for 'LAS Start Depth', 'LAS End Depth', 'LAS Total Depth', 'Valid Start Depth', 'Valid End Depth', 'Valid Total Depth', 'Inv. Start Depth', 'Inv. End Depth', 'Inv. Total Depth', and 'License Count' (showing '100000'). A large blue arrow points down to the 'License Count' field. To the right of these fields are buttons for 'Request', 'Help', and 'Quit'. Below the main form is a green-bordered box containing the text 'License Added'. At the bottom, there is a 'Choose License file:' section with a 'Choose File' button, 'No file chosen' text, and 'Add License' and 'Version' buttons. The footer contains the text 'Designed and implemented using Actual Intelligence®', 'NoHiddenPay™ LLC All Rights Reserved 2023', and the 'nhp' logo.