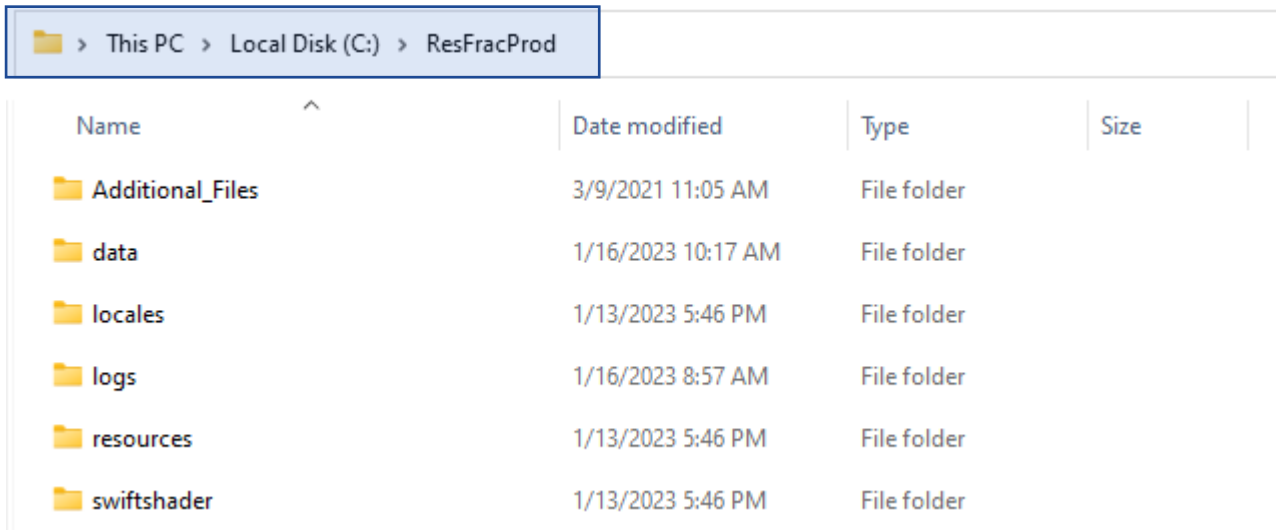




File Folder Structure

An overview of how ResFrac files are organized

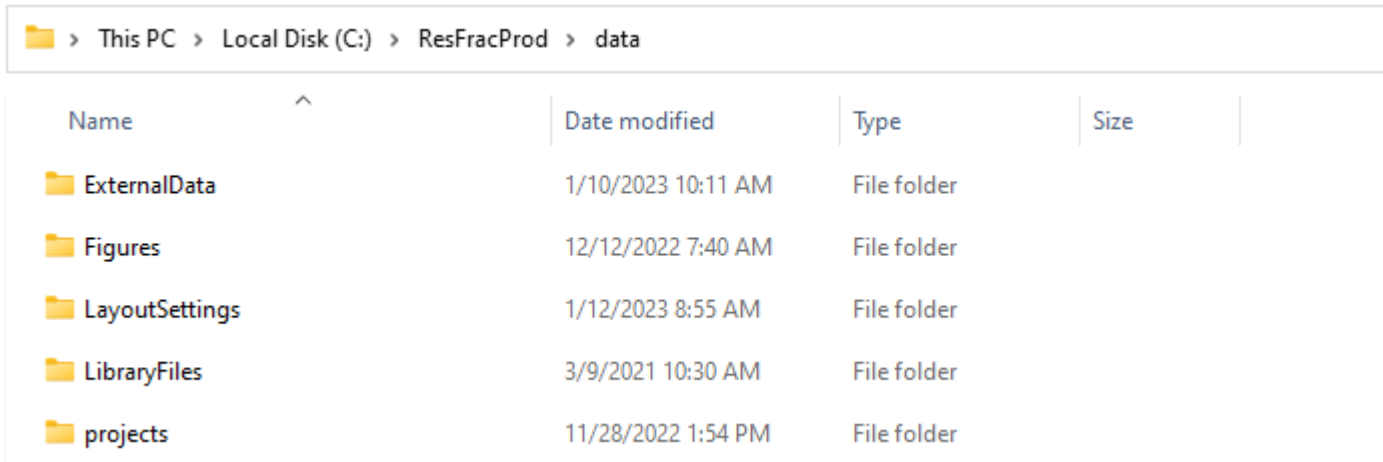
File Folder Structure



Name	Date modified	Type	Size
Additional_Files	3/9/2021 11:05 AM	File folder	
data	1/16/2023 10:17 AM	File folder	
locales	1/13/2023 5:46 PM	File folder	
logs	1/16/2023 8:57 AM	File folder	
resources	1/13/2023 5:46 PM	File folder	
swiftshader	1/13/2023 5:46 PM	File folder	

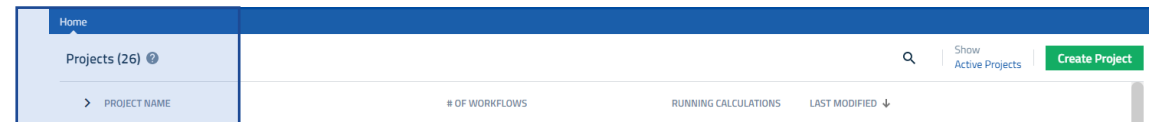
- Data – covered in next slide
- Resources – documentation of changes, technical writeup, release notes etc.
- Logs – troubleshooting only

File Folder Structure



Name	Date modified	Type	Size
ExternalData	1/10/2023 10:11 AM	File folder	
Figures	12/12/2022 7:40 AM	File folder	
LayoutSettings	1/12/2023 8:55 AM	File folder	
LibraryFiles	3/9/2021 10:30 AM	File folder	
projects	11/28/2022 1:54 PM	File folder	

- External data – ResFrac places all imported Microsoft excel.csv files into this folder when you save a layout in the UI.
- Figures – batch screenshots, screenshots etc. are placed in this folder when they are created in the UI
- Layout settings – layouts that are saved in the UI are placed here.
- Projects – All of the projects that are created in the UI and located in the ‘Home’ screen



Pro tip: When sharing simulations, it is often very helpful to also send the external data and layout file.

File Folder Structure – Getting to the simulation folder

Name	Date modified	Type	Size
Bakken	12/8/2022 2:43 PM	File folder	
Complex Eco Base2 OP	8/25/2022 12:09 PM	File folder	
Complex Eco Optimization	8/23/2022 10:32 AM	File folder	

Project Details [Edit](#)

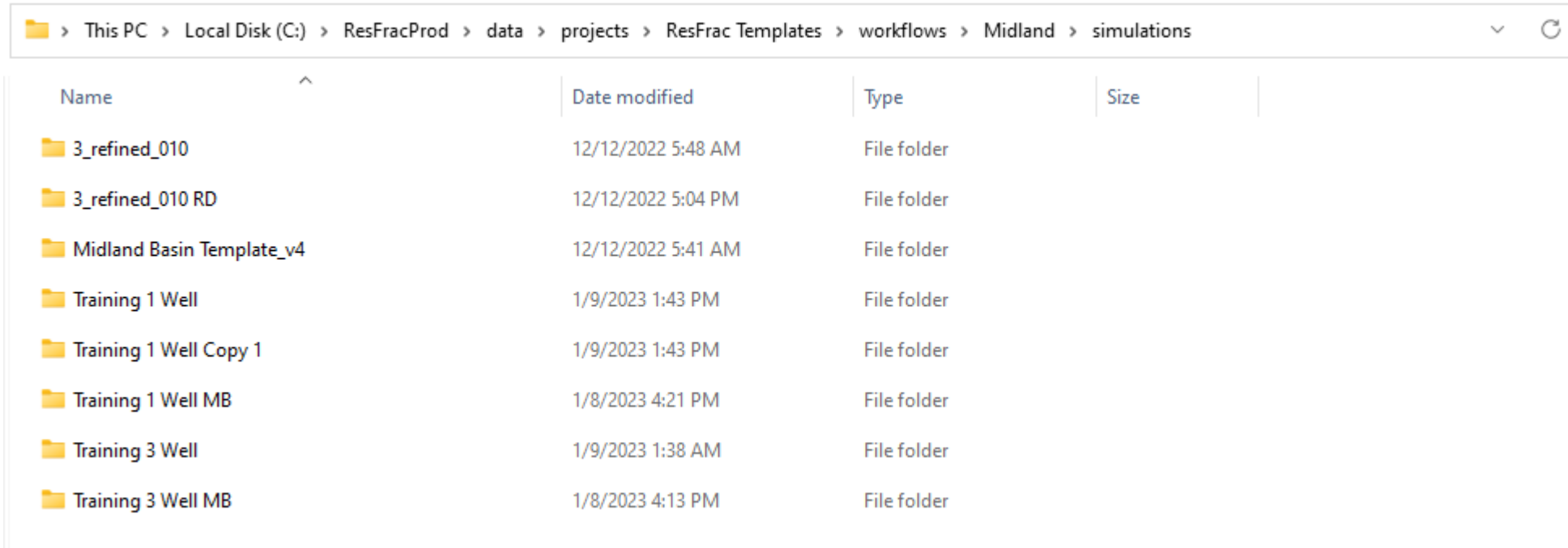
Name	Workflows	Creation timestamp
ResFrac Templates	15	Aug 23, 2022 at 10:31 am
Description		

Workflows (15) Show Active Workflows [Create Sandbox](#) [Import Workflow](#)

Workflows are where the actual simulations are grouped. Workflows can be created manually by ‘creating a sandbox’ or from importing a workflow from a sensitivity analysis, automated history match or optimization.

Additionally, when a new sensitivity analysis, automated history match or optimization is created from a simulation, they are now considered workflows and are placed in this folder.

File Folder Structure – Simulation Folders



The screenshot shows a Windows File Explorer window with the address bar path: This PC > Local Disk (C:) > ResFracProd > data > projects > ResFrac Templates > workflows > Midland > simulations. The main area displays a table of folders.

Name	Date modified	Type	Size
3_refined_010	12/12/2022 5:48 AM	File folder	
3_refined_010 RD	12/12/2022 5:04 PM	File folder	
Midland Basin Template_v4	12/12/2022 5:41 AM	File folder	
Training 1 Well	1/9/2023 1:43 PM	File folder	
Training 1 Well Copy 1	1/9/2023 1:43 PM	File folder	
Training 1 Well MB	1/8/2023 4:21 PM	File folder	
Training 3 Well	1/9/2023 1:38 AM	File folder	
Training 3 Well MB	1/8/2023 4:13 PM	File folder	

Finally, each workflow will then contain all the simulations that are associated with it.

File Folder Structure

This PC > Local Disk (C:) > ResFracProd > data > projects > ResFrac Templates > workflows > Midland > simulations > Training 1 Well

Name	Date modified	Type	Size
Additional_Files	1/8/2023 5:53 PM	File folder	
Input_Files	1/8/2023 6:14 PM	File folder	
Restart_Files	1/9/2023 1:43 PM	File folder	
Results	1/8/2023 8:06 PM	File folder	
Settings_Files	1/8/2023 6:14 PM	File folder	
autosave_input_Training 1 Well	1/8/2023 5:55 PM	Normal text file	39 KB
autosave_settings_Training 1 Well	1/8/2023 5:55 PM	Normal text file	328 KB
cpuinfo	1/8/2023 6:14 PM	Normal text file	9 KB
dmesg	1/8/2023 8:06 PM	Normal text file	0 KB
input_Training 1 Well	1/8/2023 5:55 PM	Normal text file	39 KB
matrix_prop_names	1/8/2023 5:55 PM	Normal text file	1 KB
misc_visualization_data	1/8/2023 5:55 PM	Normal text file	2 KB
settings_Training 1 Well	1/8/2023 5:55 PM	Normal text file	328 KB
static_matrix.bin	1/8/2023 5:55 PM	BIN File	32,468 KB
static_wellfrac.bin	1/8/2023 5:55 PM	BIN File	3 KB
stderr	1/8/2023 8:06 PM	Normal text file	1 KB
stdout	1/8/2023 8:06 PM	Normal text file	147 KB
syslog	1/8/2023 8:06 PM	Normal text file	184 KB

Additional Files – files that may be associated with sensitivities analysis, auto history matching or optimizations.

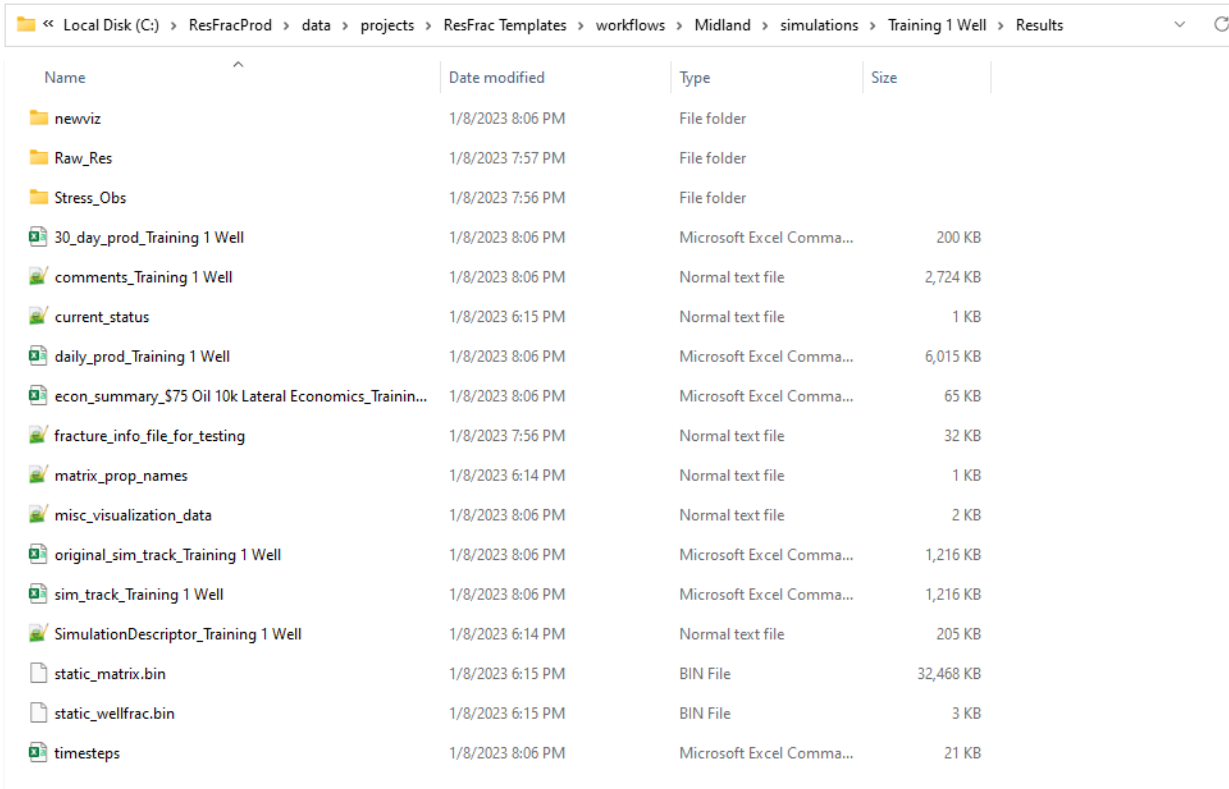
Input Files – Input files are a text file that contain the ‘structure’ of the simulation such as the static model, matrix size and well vertices.

Setting Files – Setting files are a text file that contain all the parameters you see in the UI.

Results – Covered in next slide

Restart Files – After a simulation has been run, ResFrac allows you to start a file from different points of time without having to rerun the entire simulation. The file that you need to specify resides here.

File Folder Structure – Results Folders



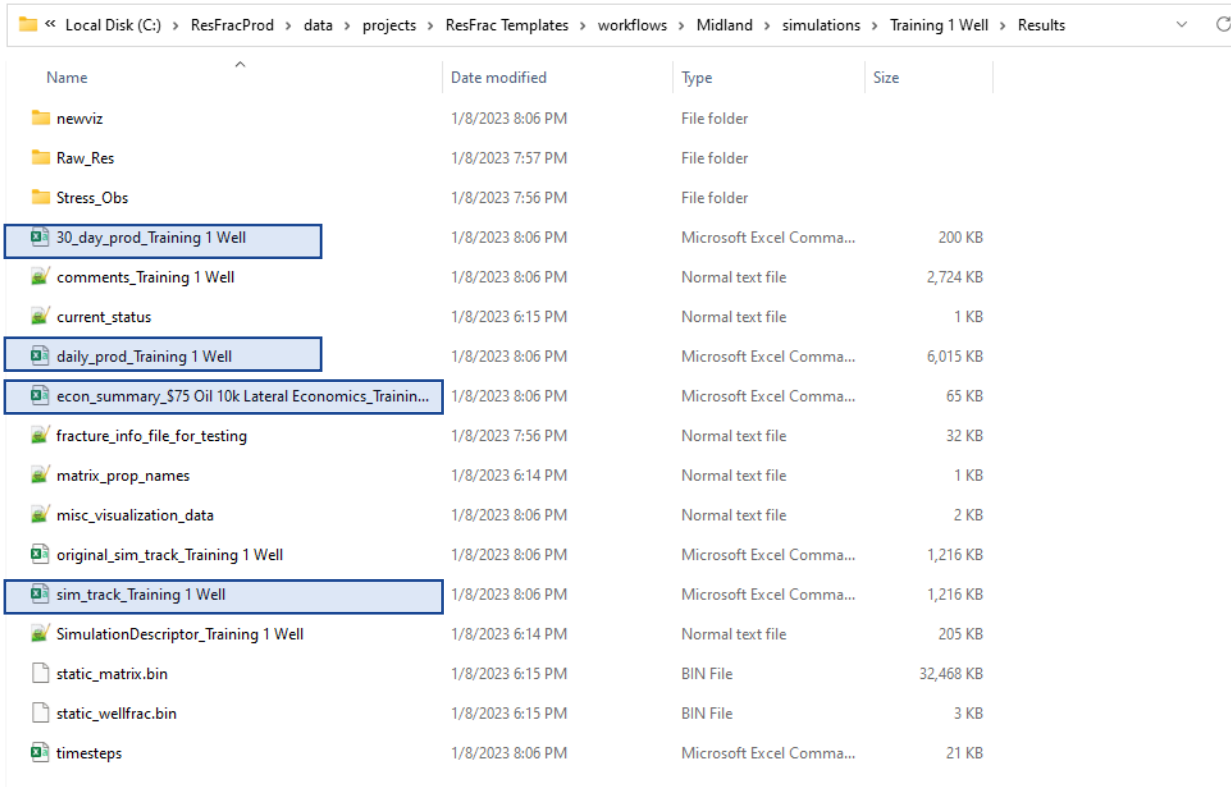
Name	Date modified	Type	Size
newviz	1/8/2023 8:06 PM	File folder	
Raw_Res	1/8/2023 7:57 PM	File folder	
Stress_Obs	1/8/2023 7:56 PM	File folder	
30_day_prod_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	200 KB
comments_Training 1 Well	1/8/2023 8:06 PM	Normal text file	2,724 KB
current_status	1/8/2023 6:15 PM	Normal text file	1 KB
daily_prod_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	6,015 KB
econ_summary_S75 Oil 10k Lateral Economics_Trainin...	1/8/2023 8:06 PM	Microsoft Excel Comma...	65 KB
fracture_info_file_for_testing	1/8/2023 7:56 PM	Normal text file	32 KB
matrix_prop_names	1/8/2023 6:14 PM	Normal text file	1 KB
misc_visualization_data	1/8/2023 8:06 PM	Normal text file	2 KB
original_sim_track_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	1,216 KB
sim_track_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	1,216 KB
SimulationDescriptor_Training 1 Well	1/8/2023 6:14 PM	Normal text file	205 KB
static_matrix.bin	1/8/2023 6:15 PM	BIN File	32,468 KB
static_wellfrac.bin	1/8/2023 6:15 PM	BIN File	3 KB
timesteps	1/8/2023 8:06 PM	Microsoft Excel Comma...	21 KB

Newviz – the files that create the visualizations in the UI are stored here.

Raw_Results – ResFrac outputs all the data for each fracture element, matrix element, well layer in the static model etc. to this folder. It can be helpful to look at these results in excel format from time to time, but everything can be displayed in the UI.

Stress Obs – The viz files for the stress observation cubes are stored here as well as the ‘raw results’ in excel format.

File Folder Structure – Files



Name	Date modified	Type	Size
newviz	1/8/2023 8:06 PM	File folder	
Raw_Res	1/8/2023 7:57 PM	File folder	
Stress_Obs	1/8/2023 7:56 PM	File folder	
30_day_prod_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	200 KB
comments_Training 1 Well	1/8/2023 8:06 PM	Normal text file	2,724 KB
current_status	1/8/2023 6:15 PM	Normal text file	1 KB
daily_prod_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	6,015 KB
econ_summary_575 Oil 10k Lateral Economics_Trainin...	1/8/2023 8:06 PM	Microsoft Excel Comma...	65 KB
fracture_info_file_for_testing	1/8/2023 7:56 PM	Normal text file	32 KB
matrix_prop_names	1/8/2023 6:14 PM	Normal text file	1 KB
misc_visualization_data	1/8/2023 8:06 PM	Normal text file	2 KB
original_sim_track_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	1,216 KB
sim_track_Training 1 Well	1/8/2023 8:06 PM	Microsoft Excel Comma...	1,216 KB
SimulationDescriptor_Training 1 Well	1/8/2023 6:14 PM	Normal text file	205 KB
static_matrix.bin	1/8/2023 6:15 PM	BIN File	32,468 KB
static_wellfrac.bin	1/8/2023 6:15 PM	BIN File	3 KB
timesteps	1/8/2023 8:06 PM	Microsoft Excel Comma...	21 KB

Sim_track_WellName file – This file contains all the data that is output by ResFrac versus time. This file is used as the data source for the line plots that you see in the UI.

Production files – ResFrac also outputs the production only data by daily or 30-day production.

Econ_summary – The summary of the economic model if one was set up in the simulation



Thank You!

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Last updated Feb 2026