

DOCUMENTATION PAGE

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Contractor Name and Address: Neubrex Energy Services (US), LLC 11125 Hwy 159 West Bellville, TX 77418	Type of Report: Final Technical Report
Client Name: Forge	P.O. No:
	Consultant Name & Address: N/A
Supplementary Note: Report is supported by a PowerPoint presentation.	Wells: Utah Forge 16B(78)-32 (API: NA)
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Final Deliverables Transmittal Page*

From: Neubrex Energy Services (US), LLC.	To: Energy & Geoscience Institute
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Attention: Dana Jurick	Attention: Dr. John McLennan
Deliverable Description	Format
Project Final Report:	PDF Digital
Processed Digital Data	File names: See following pages

Sent By: Dana Jurick, Neubrex Energy Services (US), LLC

Signature: _____

Date: _____

Received By: _____

Signature: _____

Date: _____

*Please sign and return dated copy/scan to: dana.jurick@neubrex.com

Data description

The following data is made available in electronic form as files.

All measurements were performed between **Aug 04, 2024, 18:13** and **Jul 14, 2023, 11:13**.

All reported times are UTC-00:00.

File format

Files are provided in HDF5 or csv formats. For HDF5 file the following structure is used. Traces time stamps are provided in standard and UNIX formats.

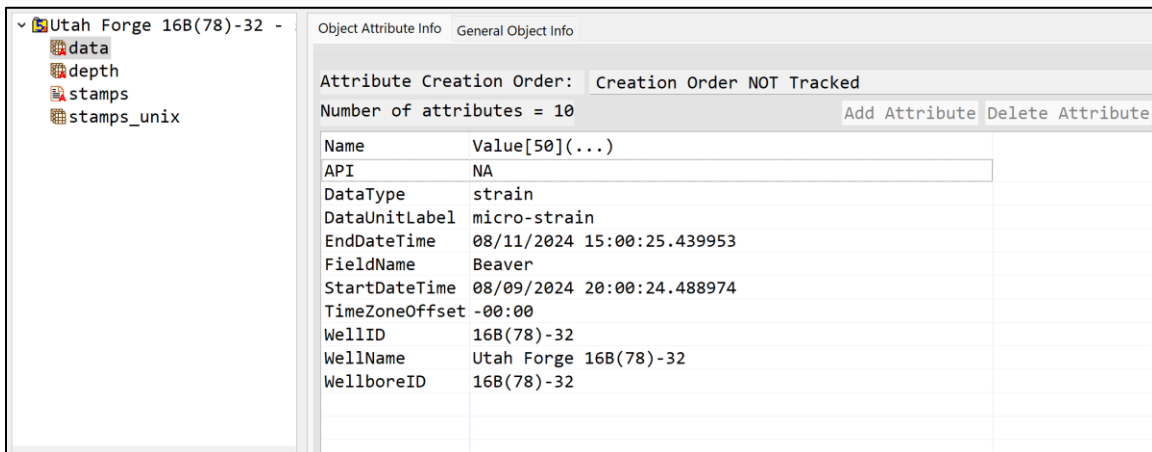


Figure 1. The HDF5 file format

File reading tools

HDF5 files can be read using various applications and many programming languages. An example code in Python is provided along all deliverables. Using the reader and plotting library the sample data set as shown below can be created.

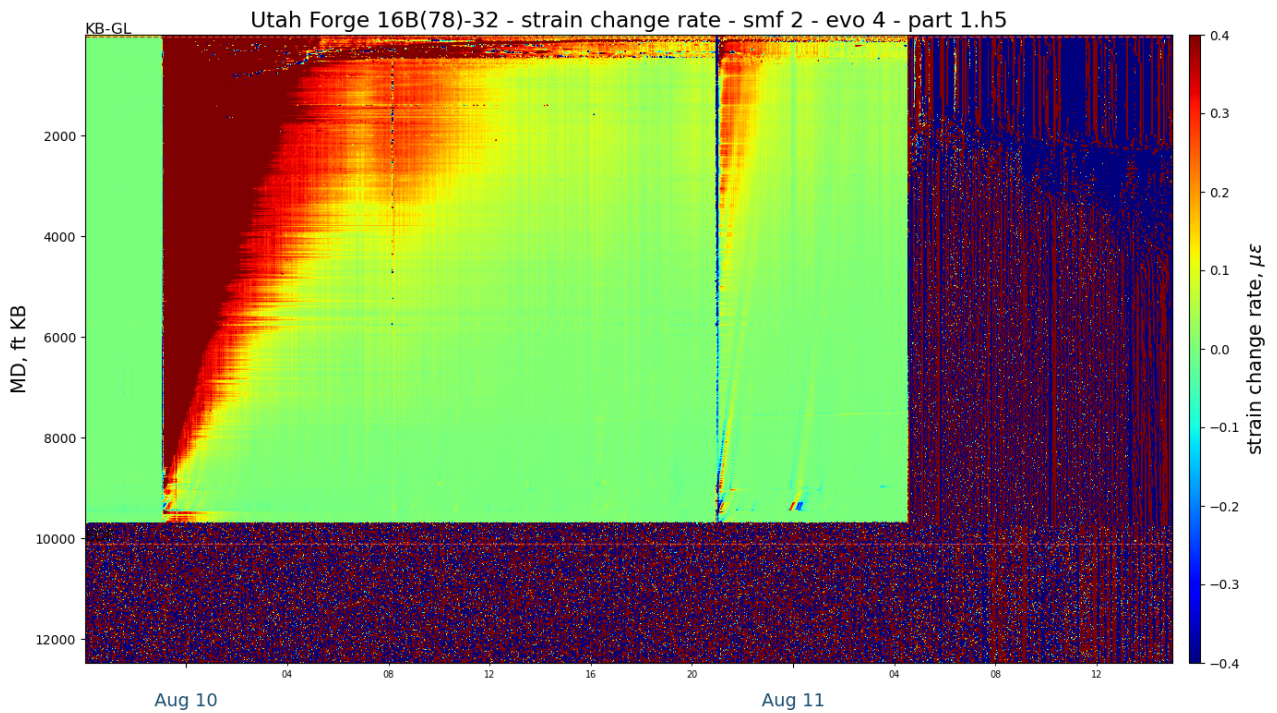


Figure 2. Example of data file content plot

Well Utah Forge 16B(78)-32

List of deliverables for this well is shown in tables below.

Table 1. Deliverable files – names and description of their content

File name	Description of content
Utah Forge 16B(78)-32 - absolute strain - smf 2 - evo 4 - part 1.h5	Absolute strain – part 1/2
Utah Forge 16B(78)-32 - DTS - mmf 2 - evo 4 – part 1.h5	Absolute temperature – part 1/2
Utah Forge 16B(78)-32 - strain change - smf 2 - evo 4 – part 1.h5	RFS based strain change rate – part 1/2
Utah Forge 16B(78)-32 - strain change rate - smf 2 - evo 4 – part 1.h5	RFS based strain change rate – part 1/2
Utah Forge 16B(78)-32 - DTS - mmf 2 - evo 4 - part 2.h5	Absolute temperature – part 2/2
Utah Forge 16B(78)-32 - strain change - smf 2 - evo 4 - part 2.h5	RFS based strain change rate – part 2/2
Utah Forge 16B(78)-32 - strain change rate - smf 2 - evo 4 - part 2.h5	RFS based strain change rate – part 2/2
Utah Forge 16B(78)-32 - absolute strain - smf 2 - evo 4 - part 2.h5	Absolute strain – part 2/2

Table 2. Data distributed in electronic form

File name	First trace	Last trace	Number of traces	Samples per trace	Format
Utah Forge 16B(78)-32 - DTS - mmf 2 - evo 4 – part 1.h5	Aug 04, 2024, 18:13:32	Aug 04, 2024, 20:29:39	25	14,857	HDF5
Utah Forge 16B(78)-32 - strain change - smf 2 - evo 4 – part 1.h5	Aug 09, 2024, 20:00:24	Aug 11, 2024, 15:00:25	3,164	37,427	HDF5
Utah Forge 16B(78)-32 - strain change rate - smf 2 - evo 4 – part 1.h5	Aug 09, 2024, 20:00:24	Aug 11, 2024, 15:00:25	3,164	37,427	HDF5
Utah Forge 16B(78)-32 - absolute strain - smf 2 - evo 4 - part 2.h5	Aug 04, 2024, 20:51:19	Aug 11, 2024, 15:08:24	2,642	73,718	HDF5
Utah Forge 16B(78)-32 - DTS - mmf 2 - evo 4 - part 2.h5	Aug 12, 2024, 19:24:32	Aug 16, 2024, 14:12:27	2,269	1,518	HDF5
Utah Forge 16B(78)-32 - strain change - smf 2 - evo 4 - part 2.h5	Aug 12, 2024, 18:37:58	Aug 16, 2024, 14:12:26	6,743	37,427	HDF5
Utah Forge 16B(78)-32 - strain change rate - smf 2 - evo 4 - part 2.h5	Aug 12, 2024, 18:37:58	Aug 16, 2024, 14:17:18	6,749	37,427	HDF5
Utah Forge 16B(78)-32 - absolute strain - smf 2 - evo 4 - part 2.h5	Aug 12, 2024, 20:04:49	Aug 16, 2024, 14:05:54	3,232	73,718	HDF5