# SSHCZO Metadata Worksheet

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| Data File Name | **CZMW11\_online.zip** |
| Date Prepared | 2021-03-11 |
| Descriptive Title | Shale Hills CZO borehole wireline logs: CZMW\_11 |
| Update Frequency | Campaign data—not updated |
| Abstract | CZMW 11 was drilled on 2019-06-19 by parratt wolff inc using a CME 850X crawler mounted direct push/rotary drill rig. 6 ¼ in augers were used to drill to refusal at 5.334 meters and a 6” air hammer was used to continue to 5.944 meters. The well is cased to 5.944 meters with 4” pvc casing. Boring continued with a 4” air hammer to a depth of 44.196 meters. CZMW 11 was logged on 2019-10-21 to 2019-10-24 by Dr. Brad Carr (University of Wyoming). The loggings include Caliper, Optical Televiewer, Acoustic Televiewer, Natural Gamma, Fluid Temperature/ Fluid Conductivity, Spectral Gamma, Impeller Flowmeter, Heat Pulse Flowmeter, Electromagnetic, Magnetic Susceptibility, Full Waveform Sonic (3 receiver), Resistivity (normal 8”,16”, 32”, 64”)/Induced Polarization and Self-Potential. |
| InvestigatorContact Info | Dr. Xin Gu, Research Assistant Professor, The Pennsylvania State University, 302 Hosler, University Park, PA, 16802, 814.865.1619, sxb7@psu.eduDr. Susan Brantley, Professor of Geosciences, The Pennsylvania State University, 2217 Earth and Environmental Systems Institute, University Park, PA, 16802, 814.865.1619, sxb7@psu.edu. |
| Data Value Descriptions | The digital data files are formatted in 2 ways: company proprietary format (.tfd) and .xlsx. .tfd format is standard WellCAD format for wireline logs (these data must be read using a software package like WellCad.). The .xlsx file is text file with headers denoting column data and units.  |
| Keywords | Wireline logs, Hydrology |
| Methods | The loggings include Caliper, Optical Televiewer, Acoustic Televiewer, Natural Gamma, Fluid Temperature/ Fluid Conductivity, Spectral Gamma, Impeller Flowmeter, Heat Pulse Flowmeter, Electromagnetic, Magnetic Susceptibility, Full Waveform Sonic (3 receiver), Resistivity (normal 8”,16”, 32”, 64”)/Induced Polarization and Self-Potential. They are Mt. Sopris tools: http://www.mountsopris.com/ |
| Sites | Shale Hills Valley: 40.66380, -77.90610 (NAD\_1983\_StatePlane\_Pennsylvania\_South\_FIPS\_3702) |
| Publications | none |
| Citation | **Acknowledgement for CZO**: Financial Support was provided by National Science Foundation Grant EAR – 0725019 (C. Duffy), EAR – 1239285 (S. Brantley), and EAR – 1331726 (S. Brantley) for the Susquehanna Shale Hills Critical Zone Observatory.  Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory.  For EAR 07-25019 to C.J. Duffy, award dates were 11/1/07 - 10/31/13 For EAR 12-39285 to S.L. Brantley, award dates were 9/1/12 - 8/31/14 For EAR 13-31726 to S.L. Brantley, award dates are 10/1/13 - 9/30/18**Acknowledgement for research in Shale Hills:**This research was conducted in Penn State's Stone Valley Forest, which is funded by the Penn State College of Agriculture Sciences, Department of Ecosystem Science and Management and managed by the staff of the Forestlands Management Office. |
| Data Use Notes | The user of Susquehanna Shale Hills CZO data agrees to provide proper acknowledgment with each usage of the data. Citation of the name(s) of the investigator(s) responsible for the data set, in addition to the generic statement above, constitutes proper acknowledgment. Author(s) (including Susquehanna Shale Hills CZO investigators) of published material that makes use of previously unpublished Susquehanna Shale Hills CZO data agree to provide the Susquehanna Shale Hills CZO data manager with four (4) copies (preferably reprints) of that material for binding as soon as it becomes available. The user of Susquehanna Shale Hills CZO data agrees not to resell or redistribute shared data. The user of these data should be aware that, while efforts have been taken to ensure that these data are of the highest quality, there is no guarantee of perfection for the data contained herein and the possibility of errors exists. These data are defined as either public or private, such that a password may be required for access. |