



GAEA Technologies

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Borehole Validation Report

Project ID:	Validation QA and QC Examples
Project Name:	Validation QA and QC Examples
Borehole	BH-03 CORE-QAQC
X Coordinate:	548320.25
Y Coordinate:	4809125.6
End Depth:	30.00
Date Drilled:	August 5, 2026
Validated By:	Admin
Validation Date:	August 13, 2026
WinLoG Version:	6.10
Validation Engine:	2.0.0

Overall Validation Status

Validation:	Failed
Completeness:	100%
Quality:	Fair
Confidence Score:	63%

Validation Summary

Warnings:	2
Errors:	2

Validation Errors

Message:	Intervals must not overlap
Date Type:	Lithology Layers
First Depth:	4.50
Second Depth:	4.30
Actual Value:	4.3
Expected Value:	>= 4.5
Explanation:	Consistent interval geometry is required for reliable logs, calculations, and reports.
Potential Cause:	Interval boundaries may have been entered incorrectly, duplicated, omitted, or imported out sequence.



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Potential Resolution:	Review the affected and adjacent intervals, correct their boundaries or ordering, and confirm continuous coverage to the intended borehole depth.
Message:	SCR cannot exceed TCR
Date Type:	SCR and TCR
First Depth:	10.50
Second Depth:	12.00
Actual Value:	94
Expected Value:	89
Explanation:	The recorded value falls outside an expected or physically valid domain.
Potential Cause:	The value may contain a transcription, unit, calculation, or data-mapping error.
Potential Resolution:	Verify the value and units against the original field or laboratory record. Correct confirmed errors or calculation errors; otherwise document the verified exception.

Validation Warnings

Message:	RQD greater than SCR
Date Type:	RQD and SCR
First Depth:	7.50
Second Depth:	9.00
Actual Value:	76
Expected Value:	70
Explanation:	The rule identifies a condition that should be verified as part of QA/QC review.
Potential Cause:	The source value or related record may contain an entry, calculation, classification, or mapping error.
Potential Resolution:	Review the source data and related records, correct verified errors, and document any valid exception before approval.
Message:	Bedrock encountered unusually shallow
Date Type:	Lithology
First Depth:	0.00
Second Depth:	4.50
Actual Value:	0
Expected Value:	≥ 0.5
Explanation:	The rule detects an uncommon or internally inconsistent combination that requires review rather than automatic correction.



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Potential Cause: One or more related values, classifications, interval boundaries, or observations may be incorrect, or the condition may be unusual but valid.

Potential Resolution: Compare the flagged values with the original logs and adjacent intervals. Correct confirmed errors; otherwise document the field or engineering basis for accepting the condition.

This report summarizes automated validation checks performed by WinLoG Professional. It is not a formal QA/QC certificate and does not constitute approval of the borehole record.