



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-02 GEO-QAQC
X Coordinate:	548320.25
Y Coordinate:	4809125.6
End Depth:	18.00
Date Drilled:	August 5, 2026
Validated By:	Admin
Validation Date:	August 12, 2026
WinLoG Version:	6.10
Validation Engine:	2.0.0

Overall Validation Status

Validation:	Failed
Completeness:	83%
Quality:	Fair
Confidence Score:	63%

Validation Summary

Warnings:	2
Errors:	2

Validation Errors

Message:	Intervals must not have gaps
Date Type:	Lithology Layers
First Depth:	14.50
Second Depth:	15.00
Actual Value:	15
Expected Value:	14.5
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:	No interval exceeds borehole depth
Date Type:	Lithologic Layers
First Depth:	15.00
Second Depth:	18.50
Actual Value:	18.5
Expected Value:	≤ 018
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.

Validation Warnings

Message:	Refusal recorded in soft soil
Date Type:	Samples
First Depth:	9.00
Second Depth:	9.60
Actual Value:	58
Expected Value:	< 50
Explanation:	The rule detects an uncommon or internally inconsistent combination that requires review rather than automatic correction.
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.
Message:	Soft clay inconsistent with high recovery
Date Type:	Sample
First Depth:	5.25
Second Depth:	5.85
Actual Value:	98
Expected Value:	≤ 95



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Explanation:	The rule detects an uncommon or internally inconsistent combination that requires review rather than automatic correction.
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.

Informational Messages

Message:	Sand highly saturated
Date Type:	WaterContent
Depth:	3.75
Actual Value:	41
Expected Value:	< 40
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:	Water content exceeds liquid limit
Date Type:	AtterbergLimits
Depth:	8.25
Actual Value:	58
Expected Value:	<= 55
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.

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.