



GAEA Technologies

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Borehole Validation Report

Project ID:	Validation QA and QC Examples
Project Name:	Validation QA and QC Examples
Borehole	OG-01 OIL-GAS-QAQC
X Coordinate:	584220
Y Coordinate:	5678440
End Depth:	3000.00
Date Drilled:	August 17, 2026
Validated By:	Admin
Validation Date:	August 18, 2026
WinLoG Version:	6.10
Validation Engine:	2.2.0

Overall Validation Status

Validation:	Warnings
Completeness:	100%
Quality:	Good
Confidence Score:	86%

Validation Summary

Warnings:	4
Errors:	0

Validation Warnings

Message:	Formation top does not align with the corresponding lithologic boundary
Data Type:	Formation Tops
Depth:	2220.00
Actual Value:	2220
Expected Value:	Lithology TopDepth +/- 1.0
Explanation:	Formation top does not align with the corresponding lithologic boundary. This check supports defensible oil-and-gas formation, show and cuttings QA/QC.
Potential Cause:	Depth, type, name, lithology linkage, interpretation tolerance, or imported dataset mapping may be inconsistent between related oil-and-gas records.
Potential Resolution:	Compare the formation, lithology, mud-log, cuttings and show records at the affected depth correct confirmed discrepancies and document any valid interpretive difference.



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Message:	Duplicate hydrocarbon-show records exist at the same depth
Data Type:	Hydrocarbon Shows
Depth:	2350.00
Actual Value:	2350
Expected Value:	Unique show depth
Explanation:	Duplicate hydrocarbon-show records exist at the same depth. This check supports defensible oil-and-gas formation, show and cuttings QA/QC.
Potential Cause:	The depth, type code, record order, duplicate entry, or imported value may be invalid or may contain a transcription or mapping error.
Potential Resolution:	Verify the affected depth and type against the source log, correct invalid or duplicate record and document any valid exception before technical use.
Message:	Moderate or strong oil staining has no nearby hydrocarbon show
Data Type:	Oil Staining
Depth:	1700.00
Actual Value:	1700
Expected Value:	Nearby hydrocarbon show
Explanation:	Moderate or strong oil staining has no nearby hydrocarbon show. This check supports defensible oil-and-gas formation, show and cuttings QA/QC.
Potential Cause:	Depth, type, name, lithology linkage, interpretation tolerance, or imported dataset mapping may be inconsistent between related oil-and-gas records.
Potential Resolution:	Compare the formation, lithology, mud-log, cuttings and show records at the affected depth correct confirmed discrepancies and document any valid interpretive difference.
Message:	Moderate or strong hydrocarbon show has no nearby oil-staining observation
Data Type:	Hydrocarbon Shows
Depth:	1250.00
Actual Value:	No nearby staining observation
Expected Value:	Oil-staining observation or documented absence
Explanation:	Moderate or strong hydrocarbon show has no nearby oil-staining observation. This check supports defensible oil-and-gas formation, show and cuttings QA/QC.
Potential Cause:	The required observation or identifying value may not have been entered, imported, or documented at the applicable depth.
Potential Resolution:	Review the mud log, cuttings descriptions and source records; enter the missing observation or document that the information was not observed or is unavailable.

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.