

Data Integrity Reports – Ideas from the Systems & Data Committee

We can all appreciate the value of good data. It ensures accurate internal and external reporting, it can assist in making effective business decisions, it can prevent loss of assets due to missed or incorrect rental or royalty payments, and can prevent unnecessary re-work. Regardless of which system your company has, below are some examples of queries/reports that can be created to help keep your data clean.

Contributing Acreage Issues

This type of report would identify where the total contributing acreage from leases linked to a well is less than or greater than the spacing for the well. For example, a typical gas well in Alberta that has contributing acreage of 128 hectares would be an issue as you could potentially be missing royalty payments to the owners of the remaining 128 hectares in the gas spacing unit.

Custom Well DOIs

Typically, a well should have a Division of Interest (DOI) that is governed by a separate entity. This type of report would show wells that have a DOI that isn't driven by a contract, lease or joint interest/venture file.

Comparison of Mineral or Surface Land Files with the Crown

Utilizing crown extracts or a private data vendor such as gDC or IHS this type of report would compare key fields to ensure that information in your land system matches the crown. While not every field may be critical, some fields like the continuation type, expiry date, rental date, rental amounts, etc., are very critical. This type of report would also identify leases that the crown recognizes as being held by your company where a record does not exist in your system, or vice-versa.

Entities Missing a DOI

This type of report identifies leases, contracts, wells, or other entities that don't have a Division of Interest.

Entities with a Conflicting DOI

This type of report would identify entities that have multiple DOIs with differing interests for the same DOI Type and Account Group. For example, a well that is linked to 3 mineral leases each having different working interests.

Wells Missing Attachments/Cross-References

Typically, active wells should always be attached/cross-referenced to some type of file. This report would show wells that aren't attached to anything. For example, an operated, producing well that is not attached to a mineral file or a surface file.

Entities Associated with Inactive Companies

This report would show entities (leases, contracts, wells) that are associated with a company that is inactive either within your own system or based on publicly available data.

Royalties Without Linked DOIs

This report would show royalties with a stand-alone DOI in the paid to or paid by section of the royalty record rather than being linked to a DOI. This could result in royalties not being updated properly when DOIs are being updated due to assignments, etc. You could also use this type of report to identify royalties that are missing paid to or paid by parties if your system doesn't have its own built-in checks.

Active Files Linked to Inactive Files

This report would identify active files linked to inactive governing files. For example, an active mineral lease that is linked to an inactive governing contract.

Missing Land Descriptions or Rights Held

This report would identify entities that have missing or incomplete land descriptions or rights held descriptions. This is critical to ensure legal or rights searches are pulling the correct files.

Crown Files Linked to Incorrect Lessor/Depository

This report would identify crown mineral or surface files that have incorrect lessors or depositories based on your internal business associate/vendor rules.

Crown Mineral Files Past Primary Term Showing All Rights

This report would identify leases in jurisdictions where deep or shallow rights reversion applies after primary term that are showing all rights.

Mineral or Surface Files Past Expiry with an Active Status

This report would identify mineral or surface files that have an expiry date in the past but the file is still active.

Mineral Files with No Royalty

Generally, a mineral lease must have at least a lessor royalty set up. This report would identify mineral files that have no royalty set up.

Incorrect Acreage Status

Most companies report their acreage based on whether it is producing/non-producing and/or developed or undeveloped. Based on your business rules you can create a report that identifies files that are coded incorrectly based on wells linked or not linked. This is critical for correct acreage reporting.

Incorrect Prospects or Provinces Coded

Based on land descriptions, this report would identify whether entities are coded to the correct prospect/area based on corporate hierarchies or potentially coded to incorrect provinces.

Invalid Unique Well Identifier (UWI)

This report would identify wells in your system where the well UWI does not match public data from government sources or private data vendors such as gDC or IHS. This report will help to identify changes in well UWIs.

Well Licensed to Your Company Not in Your Systems

This report would identify wells from government sources or private data vendors such as gDC or IHS that are licensed to your company that do not exist in your system.

Well Licenses with Different Well Names

This report would identify wells with the same well license with different well names. All well events for a specific well license should have the same well name.

Operated Wells Not Linked to Surface Leases

This report would identify active operated wells that are not attached/linked to active surface leases.

Surface Leases with No Active Well

This report would identify surface leases that either have no well linked/attached or that no longer have active wells attached/linked to them. This can assist in identifying and prioritizing reclamation activities or identifying leases that can be cancelled thereby eliminating unnecessary payment of rentals.

Unit Wells with Unit Governing Agreements but the DOI is not linked to a Unit Contract

This report would identify doi's on unit wells which are not linked correctly. This could result in well doi's not being updated when the doi on the unit contract is updated.

The above are just samples of ways to validate and/or correct your data. We encourage you to develop data integrity checks based on your internal processes in collaboration with your land, joint interest/venture, well, and IT teams within your organization.