Diskover

SOLUTION BRIEF | ENERGY

Find subsurface data by well, field, and operator.

Subsurface Info adds SEG-Y, LAS, and DLIS headers to your Diskover index.

30%+ of HPC capacity reclaimed in oil and gas

$1.5M storage savings at a global energy company

9 PB indexed for a $60B oil and gas merger

At a glance

THE CHALLENGE

Decades of seismic and well data sit across many storage systems. A file name such as survey_002.segy says little, so teams open files one at a time in specialist apps to learn what they hold.

THE SOLUTION

Subsurface Info is a post-index metadata enrichment plugin. It reads the headers of SEG-Y, LAS, and DLIS files and adds well, field, company, depth, and survey details to each file's record.

WHY IT MATTERS

Any authorized team can search, report on, and act on subsurface data by well, field, or operator: for divestitures, governance, storage cleanup, AI training data, and visualization tools.

What the Subsurface Info enrichment plugin adds to the index

WELL AND FIELD IDENTITY

Well name, UWI or API number, field, operating company, and service company, read from the file header. Find every file tied to one well, even when the file names do not match.

SEISMIC SURVEY DETAILS

Trace count, samples per trace, sample interval, and SEG-Y revision, without loading the trace data. Compare surveys that share the same geometry, such as reprocessed copies.

LOCATION

Country, state, county, and location, so reports can be split by area, basin, or asset. Combine location with storage cost to see what each area costs to keep.

A SEARCHABLE TEXT HEADER

The SEG-Y text header is indexed as text, including notes on the survey, client, and processing. When headers carry markings such as export controlled or proprietary, you can find them.

DEPTH AND LOG DETAILS

Start and stop depth with units, log date, and the list of curves or channels, from LAS and DLIS logs. Depths are stored as numbers, so range searches work, such as logs deeper than 3,000 m.

EVERY OTHER HEADER ENTRY

Kept as searchable SECTION.KEY=value text, with no new index fields, so the index stays stable however many vendor keys you have. An alias list maps vendor keys, such as COMP and OPER, to one field.

About Diskover

Diskover helps enterprises structure unstructured data across cloud, on-prem, and edge environments, making it easier to search, govern, optimize, and deliver file data for compliance, analytics, and AI-ready workflows.

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SOLUTION BRIEF

How your subsurface info fits in Diskover

1 YOUR STORAGE

NAS
Such as Dell PowerScale, NetApp

Object and cloud
Amazon S3 and other object stores

File shares
SharePoint and file servers

Archive tiers
Stubs left by tape and HSM

2 DISKOVER SCAN

File metadata
Path, name, extension, size, size on disk

Dates
Created, modified, accessed

Ownership
Owner, group, permissions

Fast rescans
Unchanged folders skipped

3 POST-INDEX ENRICHMENT

Subsurface Info
Reads the header of each matching file after the scan

SEG-Y
First 3,600 bytes. Rev 0, 1, 2. EBCDIC or ASCII.

LAS and DLIS
LAS header up to 1 MiB. DLIS metadata only.

FIELDS ADDED

Well name • UWI / API • Field • Company • Service company • Location • Depth range • Log date • Curves • Trace count • Sample interval • Text header

All other entries stay searchable as SECTION.KEY=value text, with no new index fields.

COMBINE WITH OTHER PLUGINS

Breadcrumbs
Cost center, classification, retention

Storage attributes
Such as Dell PowerScale attributes

Storage cost
Cost per storage location

4 ONE CATALOG

ENRICHED METADATA CATALOG

Filesystem and header metadata in one record per file

5 SEARCH, REPORT, ACT

Search
Quick Search builder, Lucene, saved searches

Reports and exports
By well, field, or operator. Scheduled CSV.

Duplicates
Name and size, then content hash

Tags and policies
Tier, archive, retain, delete

API and AI Connector
Your apps, Claude, ChatGPT, Gemini, Copilot

Data movement
Snowflake, Databricks, AI engines

Archived stubs are never opened • Headers only: trace and curve data are never read • Unchanged files are not read again

Use cases

DIVESTITURES AND M&A
Report by field or well, click a slice to list every file for that asset, then tag, export, move, or delete it. Hand over a complete, documented dataset.

GOVERNANCE
Find files with markings such as export controlled outside approved folders, for example in user working folders or site inboxes. Tag them and move them back to approved storage.

CLEANUP AND COST
Find duplicate surveys and logs, see cost per storage location, and tier or archive data nobody has used in years. Free up fast storage for active projects.

PROOF POINT

9 PB indexed for a $60B merger

An oil and gas company indexed billions of files across multiple file systems and 3 locations to inventory and prepare data for the merger.

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Technical details

1 ARCHIVE-SAFE

Files with nothing on disk, such as tape stubs, are skipped before any read. Nothing is recalled from tape.

2 SMALL READS

SEG-Y: first 3,600 bytes. LAS: header up to 1 MiB. DLIS: metadata only. Trace and curve data are never read.

3 BUILT FOR SCALE

Parallel workers, a time limit per file, and no repeat reads of unchanged files keep runs safe on large estates.

4 CLEAR STATUS

Every file gets a status. Malformed files are tagged, so your team can find and fix them.

FORMATS SEG-Y rev 0, 1, 2 • EBCDIC or ASCII • Big- or little-endian • LAS 2.0 and DLIS well logs

WORKS ACROSS Cloud • On-prem • Hybrid • NAS • SAN • Object • Tape • Archive • Data lakes • Lakehouses • AI/BI/ML

Search, report, and act

QUERY ANY HEADER FIELD

Use the Quick Search builder or Lucene syntax, then save searches for your team. Range searches work on depth.

SCHEDULED REPORTS AND EXPORTS

Pick the fields you need, schedule a CSV report from the Task Panel, or export search results, with a directories-only option.

FAST DUPLICATE CHECKS

A quick name and size match narrows the set. A content hash (SHA-256 or xxHash) then confirms true duplicates.

Search: subsurface_info.well_name:"HOLLIS DRAW 14-2H"

1 RESULT **INDEX RECORD: SUBSURFACE INFO**

/projects/permian/midland_basin/wells/HOLLIS_DRAW_14-2H_main.las

NetApp • 18.4 MB • modified 2019-03-14 • owner: geodata

Well name	**HOLLIS DRAW 14-2H**
UWI / API	**42-317-40518-00-00**
Field	**SPRABERRY TREND**
Company	**Caprock Ridge Operating LLC**
Service company	**Westbrook Wireline Services**
Depth range	**7,850 to 11,240 ft**
Log date	**2019-03-11**
Curves	**GR, RHOB, NPHI, DT, RES (12 total)**
Status	**ok**

Illustrative example. Values are not from a real well.

More ways to use the data

REST API

Pull enriched records into your own applications, data platforms, and visualization tools. Feed well and survey details to other systems without manual exports.

AI CONNECTOR

Ask Claude, ChatGPT, Gemini, or Copilot for reports in plain language, such as files by field or basin. Any action the AI suggests waits for human approval.

AI- AND BI-READY DATA

Pick datasets by well, field, depth, or curve. Send only those files to Snowflake, Databricks, AI engines, or visualization tools, so models and dashboards get relevant data.

GET STARTED

See your subsurface data by well and field.

Start with a 30-day proof of concept on part of your own storage.

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