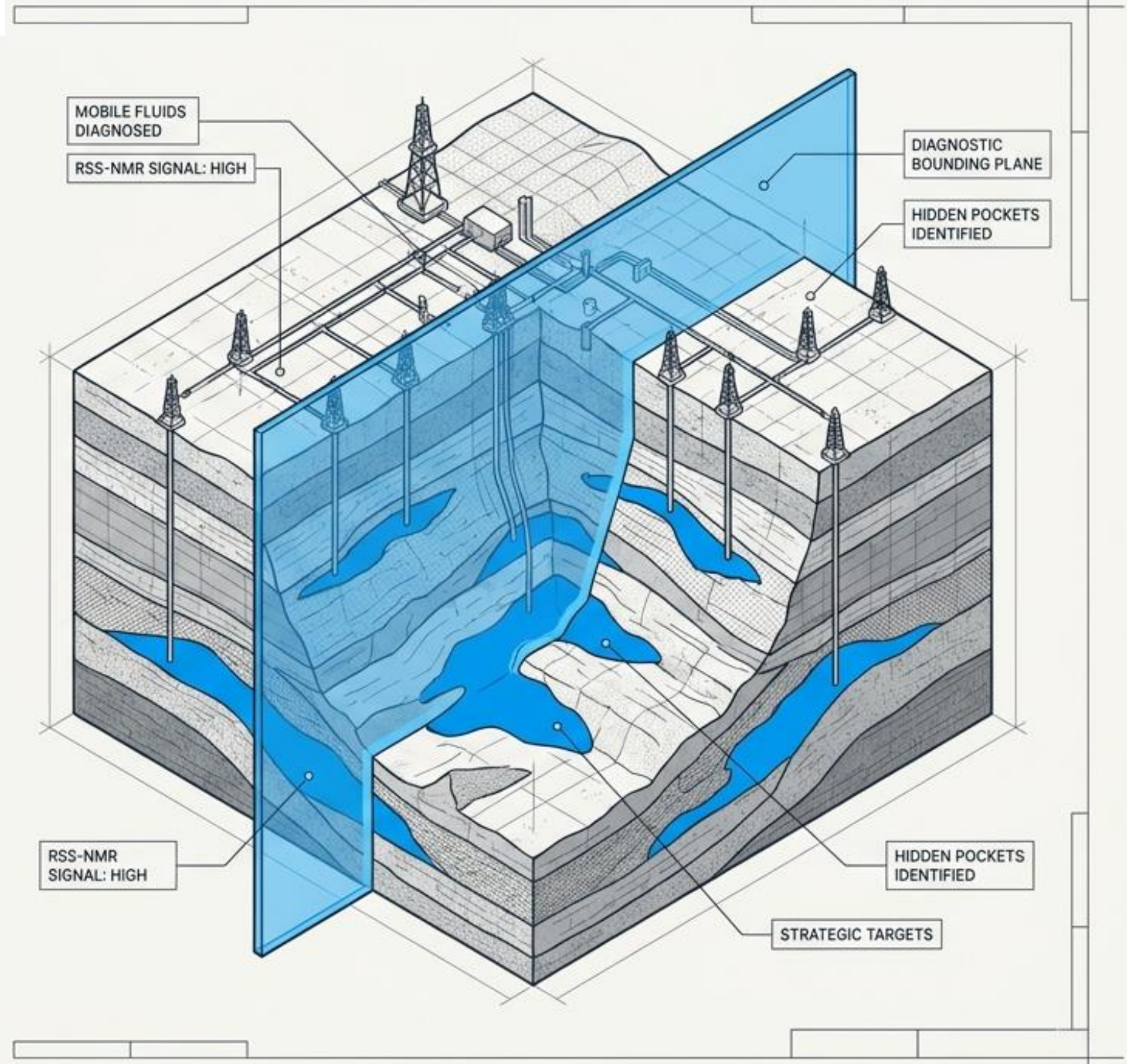
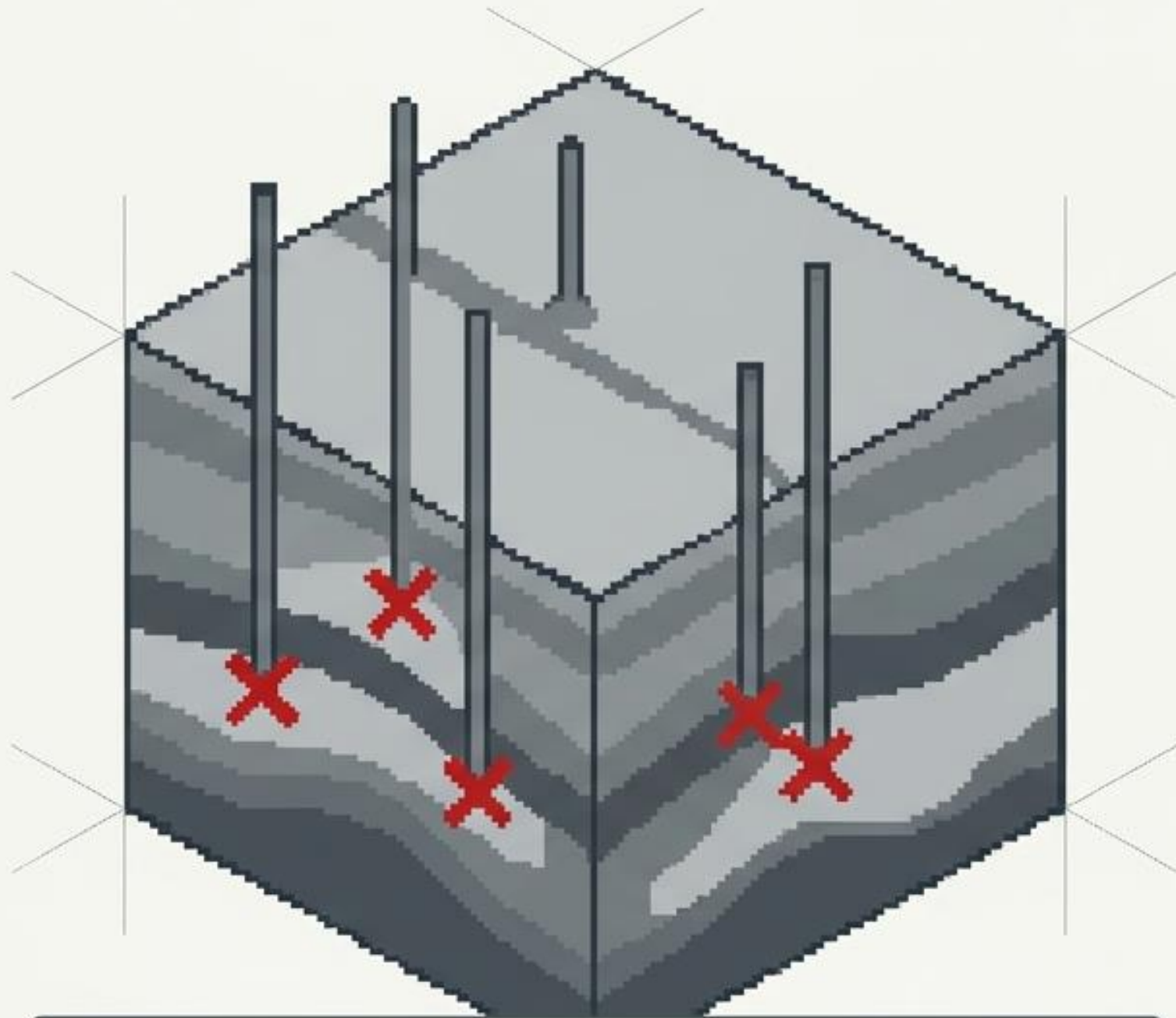


Maximizing Brownfield Value

The RSS-NMR Strategic Decision Matrix: Extracting hidden reserves, protecting EROI, and bypassing regulatory bottlenecks in mature assets.

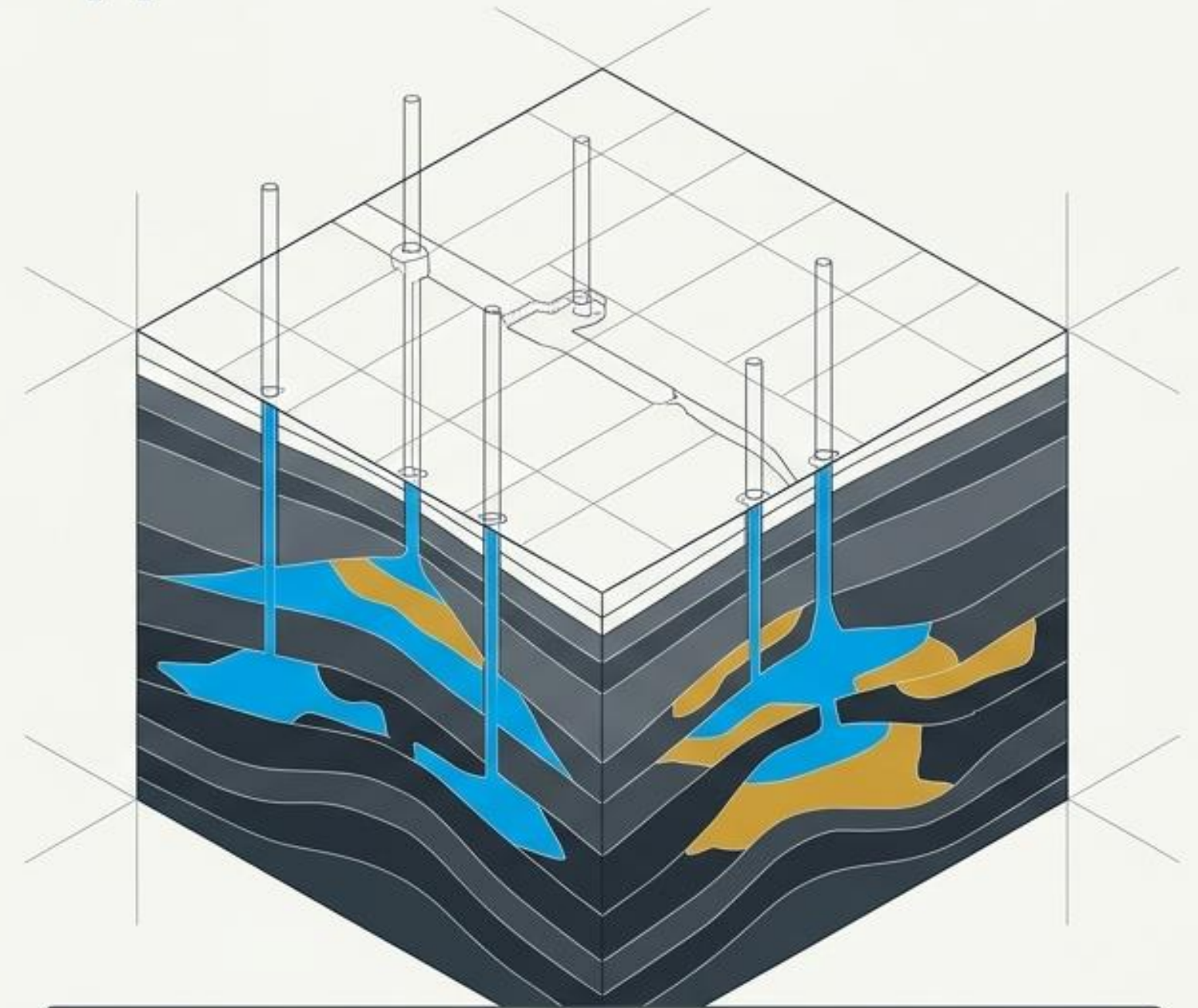


Obsolete data obscures massive trapped value in mature assets.



1960s-1980s Seismic Resolution

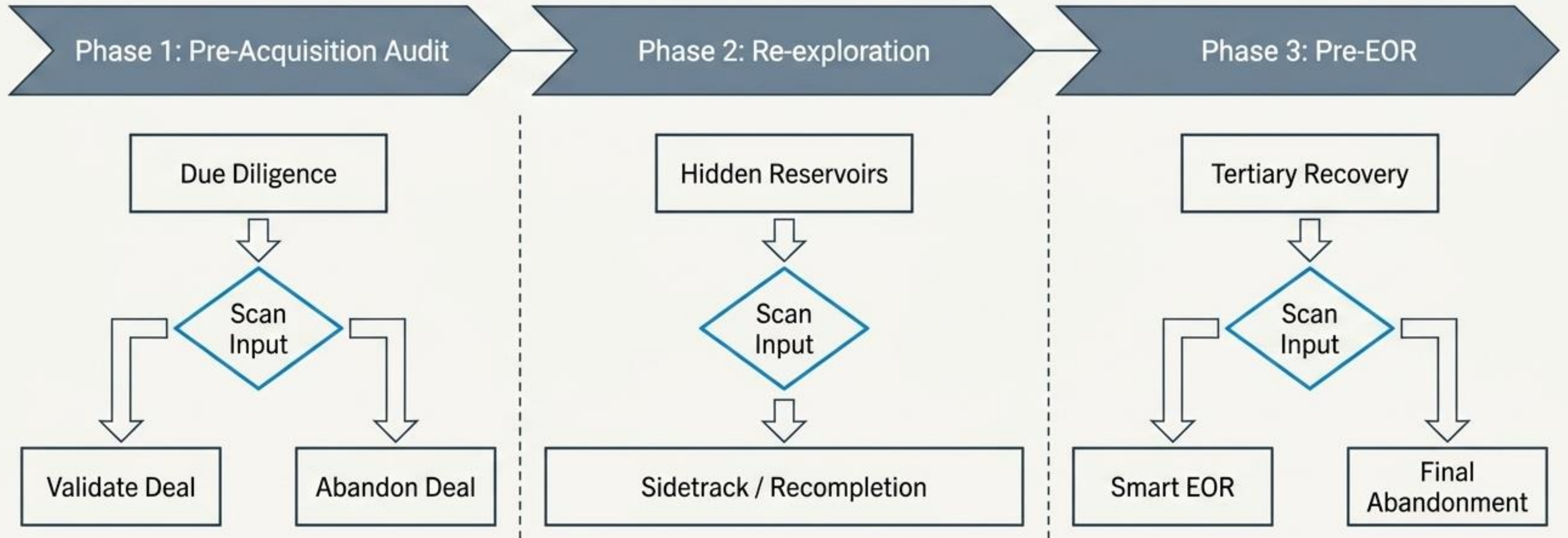
The Brownfield Reality: Declining production is often a symptom of bad mapping, not empty reservoirs. Old 2D/3D seismic leaves vast geological blind spots.



High-Resolution RSS-NMR Scan

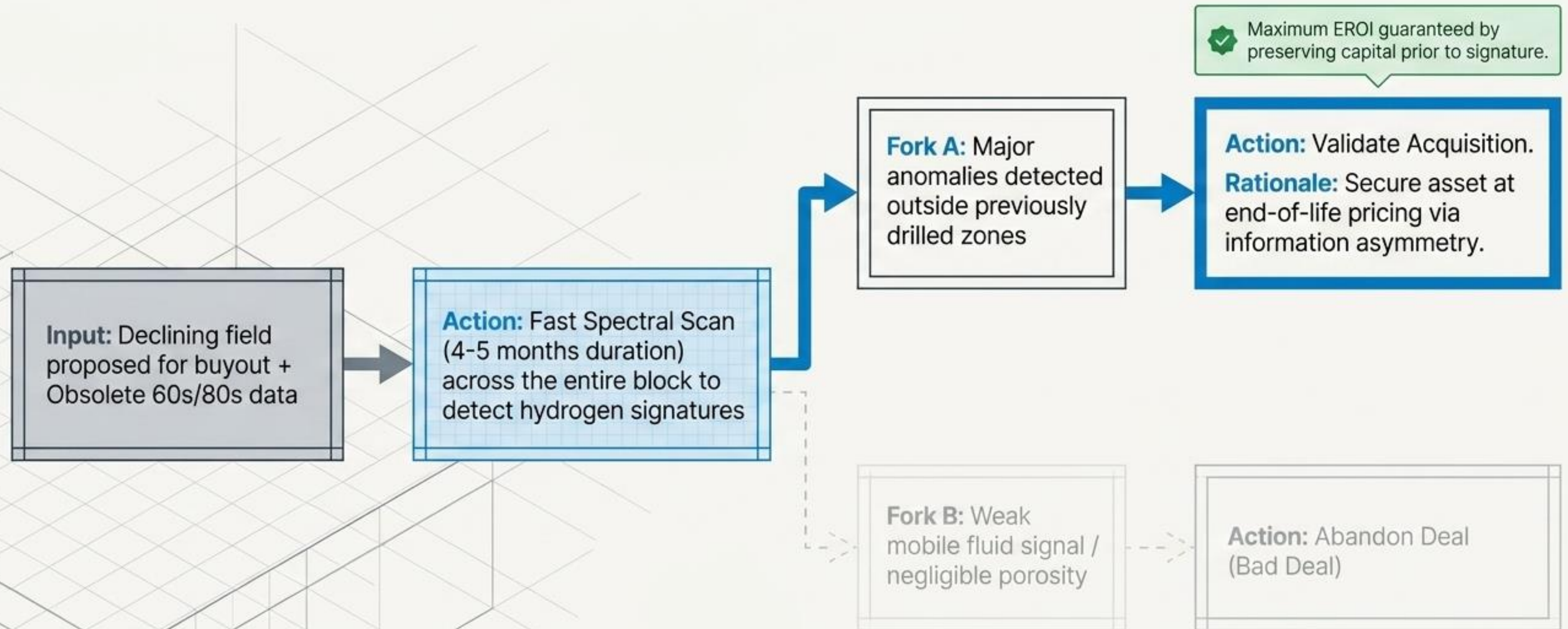
The RSS-NMR Shift: Transforms mature field management from a guessing game into a precision extraction exercise, illuminating exact hydrogen signatures to maximize Energy Return on Investment (EROI).

The RSS-NMR Strategic Decision Matrix governs the asset lifecycle

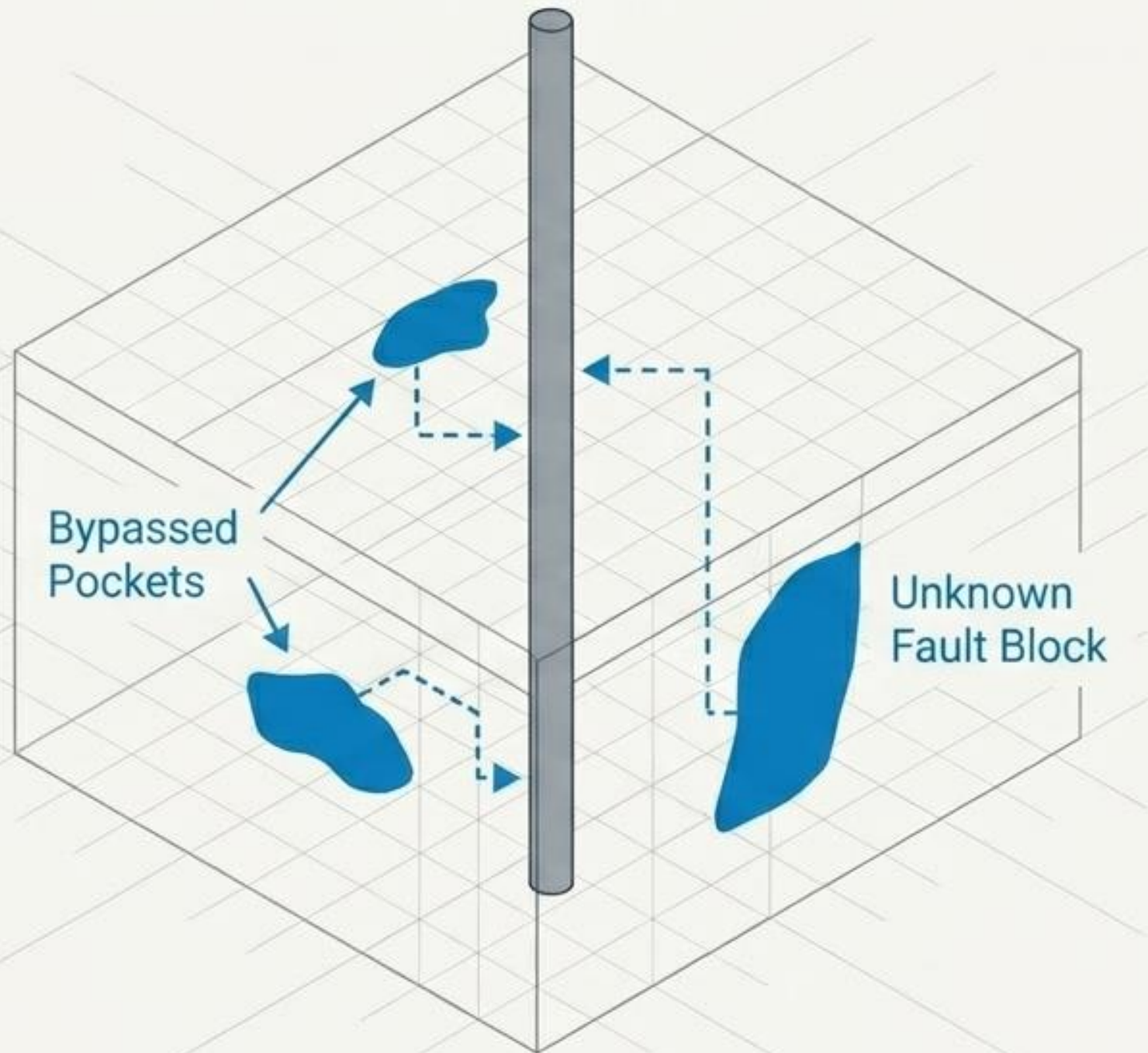


The Matrix acts as an ultimate arbitration tool to continuously maximize EROI across all lifecycle stages.

Phase 1: Eliminate exploration risk before capital deployment



Phase 2: Re-explore hidden geological blind spots with zero new infrastructure.



Status:

Production dropping due to historical pinch-outs and blind spots.

Tech Deployed:

Precision Satellite Delineation (2-3 months).

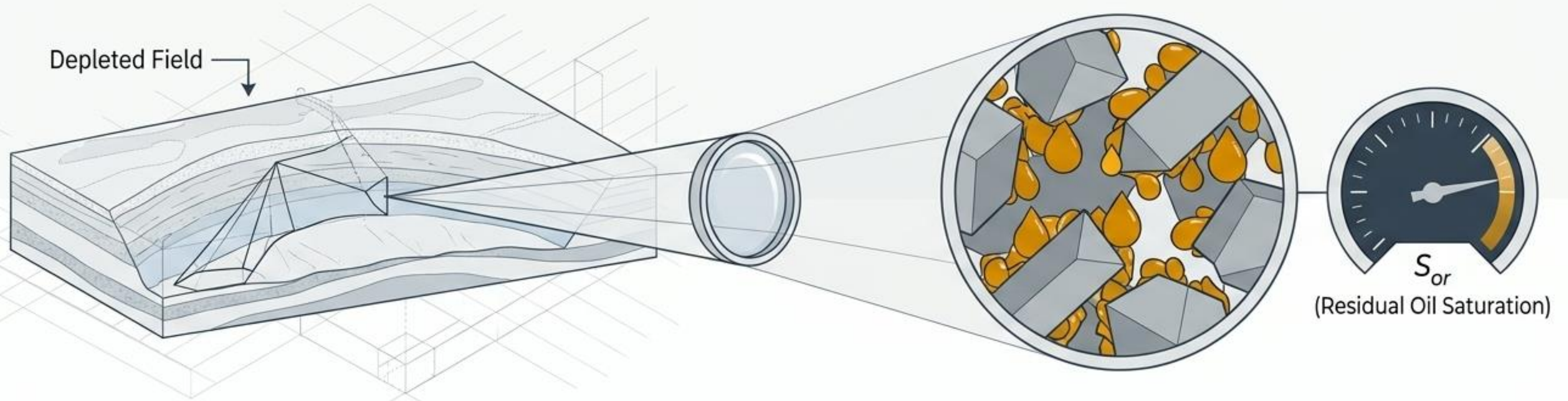
Interventions:

Perforation/Recompletion (higher up in existing casing), Sidetrack drilling, or targeted new wells.



Operational Impact: Zéro new surface pipelines. Immediate reconnection to the existing collector manifold.

Phase 3: Deploy precise Pre-EOR characterization to prevent capital waste.



Input: Continuous NMR pore size analysis

Case A: High S_{or} + Good Porosity

Launch "Smart EOR" (Polymers, CO_2 , or Thermal injection) directly into this compartment.

Case B: Heavy Immobile Fluid / Fractured

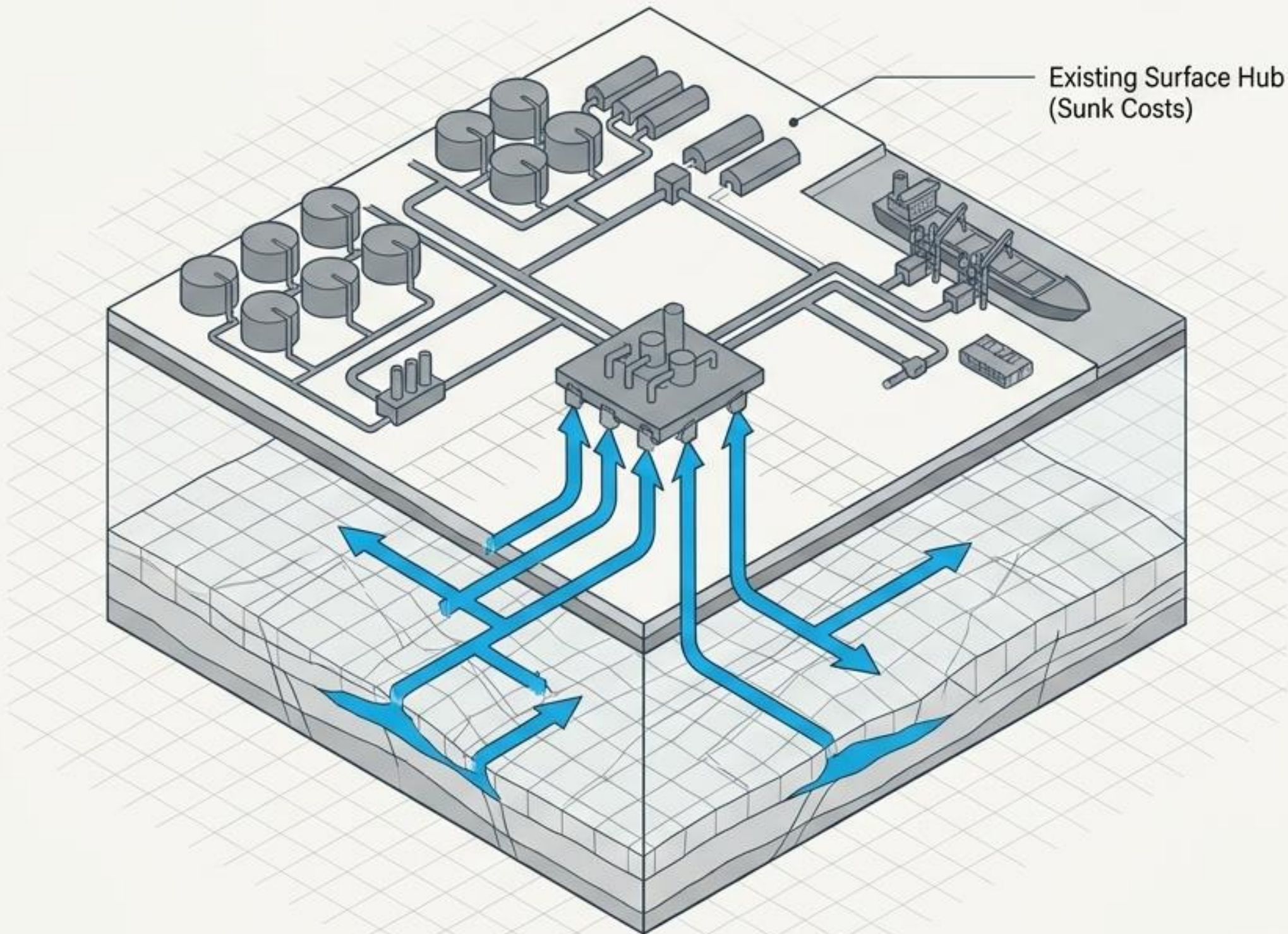
Prepare final definitive well abandonment.

**Strategic Takeaway: Stop wasting expensive EOR chemicals on barren zones.
Target tertiary recovery only where physics guarantees a return.**

Strategic Arbitrage: Adapting extraction methods to the physical state of the reservoir.

Case A	Case B
The Designation	
The Oil is Mobile but Invisible (Bypassed Pockets).	The Oil is Visible but Immobile (EOR Target).
The Physical Reality	
Fluid flows naturally under pressure, but low-resolution 60s/80s seismic mapping missed it.	Structural location is perfectly known, but oil is trapped to pore walls or is too viscous for natural pressure extraction.
Matrix Decision Strategy	
Prioritize high-margin, low-cost traditional methods (Recompletion / Sidetracks) by modifying existing surface networks.	Delay action until traditional optimization concludes, then engineer a highly targeted Tertiary EOR injection using NMR data.

Optimizing existing assets through the 'Zero Greenfield' rule.



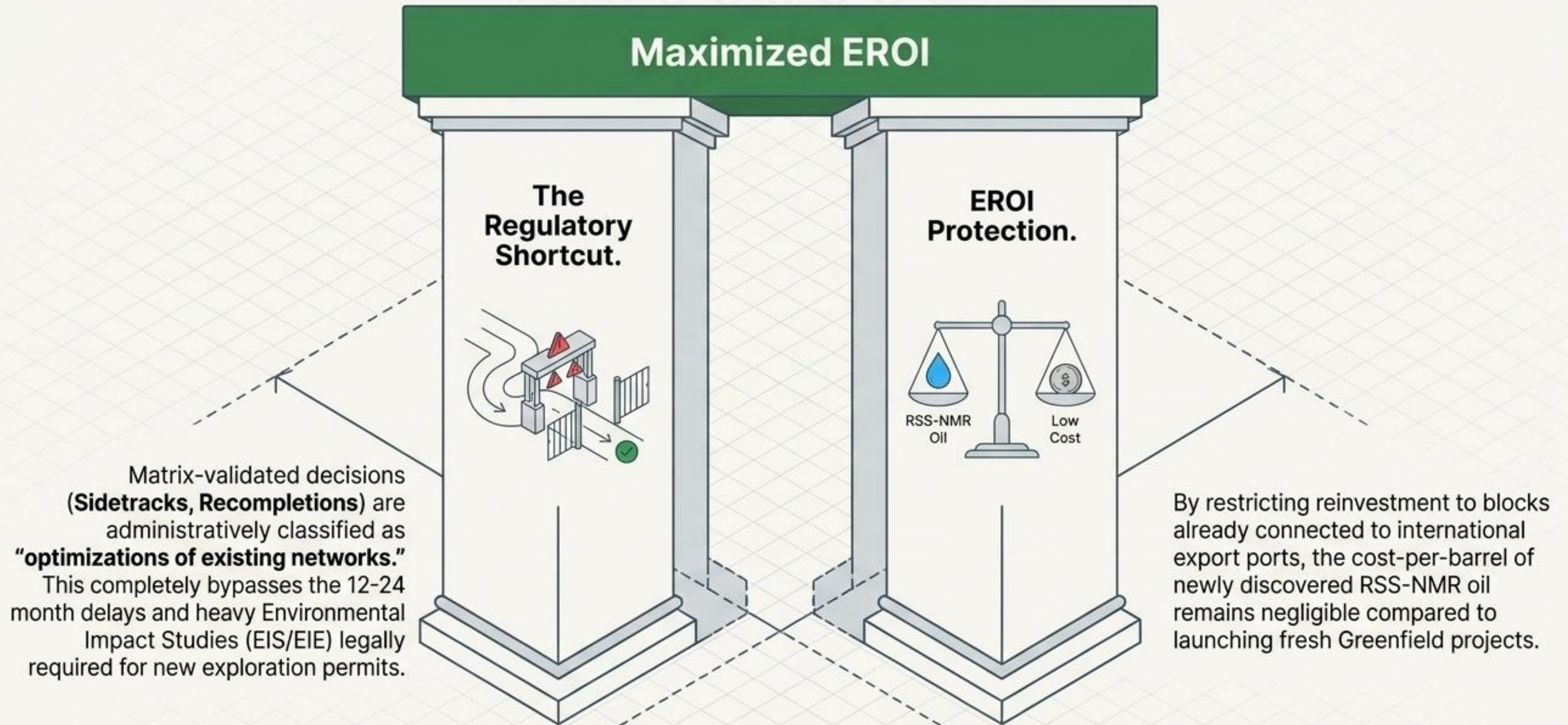
The Subsurface Funnel:

By exclusively targeting bypassed pockets immediately adjacent to active wells, all new production is routed through existing architecture.

CapEx Impact:

Capital expenditure is strictly limited to wellbore intervention. Zero capital is required for new surface transport logistics.

The twin economic pillars driving maximized EROI in mature assets.



Replacing physical exploration risk with precise data verification.

De-risked Acquisition



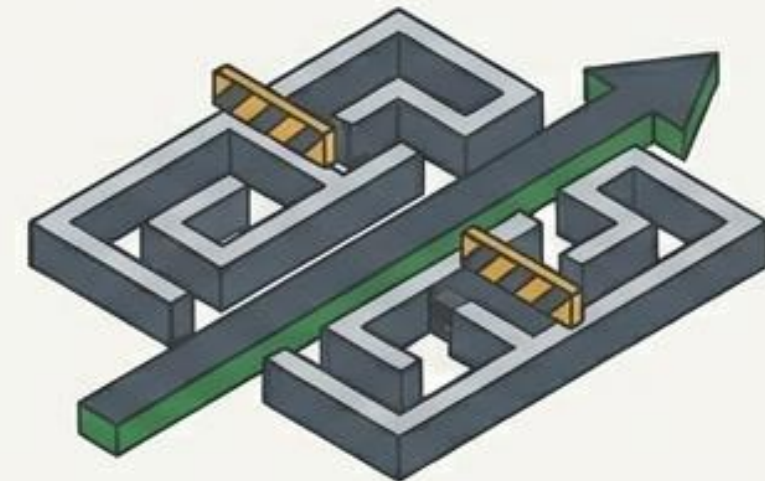
Audit declining assets before purchasing.

Maximized Extraction



Target invisible mobile oil and prep for smart EOR.

Bypassed Bureaucracy



Utilize the regulatory shortcut of network optimization.

Next Step: Initiate a fast-track spectral scan (4-5 months) on currently declining Brownfield assets to quantify bypassed potential and redefine the baseline EROI.



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Michel L. Friedman-Matarese

(Destom LH 67/11)

-  Mobile: +591-71696657
-  WhatsApp: +591-71696657
-  Email: michel@geo-nmr.net
-  In Charge: Africa & Américas
-  Speaker: FR-UK-ES-BR/PT
-  GMT: -04h
-  Base: Bolivia, Santa Cruz

Kotelianets Igor

Director of LLC "Poisk Group"

-  Tel: +78692456491
-  WhatsApp: +79787155212
-  Email: igor@geo-nmr.net
-  In Charge: World
-  Speaker: RU-UK
-  GMT: +03h
-  Base: Sevastopol, Rusia

VERSATILITY OF APPLICATION



HYDROCARBONS

Oil
Gas
Condensed



PRECIOUS METALS AND BASES

Gold
Copper
Lithium
Nickel



STRATEGIC

Uranium
Diamonds
Coal



WATER RESOURCES

Drinking Water
Underground
Geothermal

The technology eliminates false positives by identifying the specific type of mineral.