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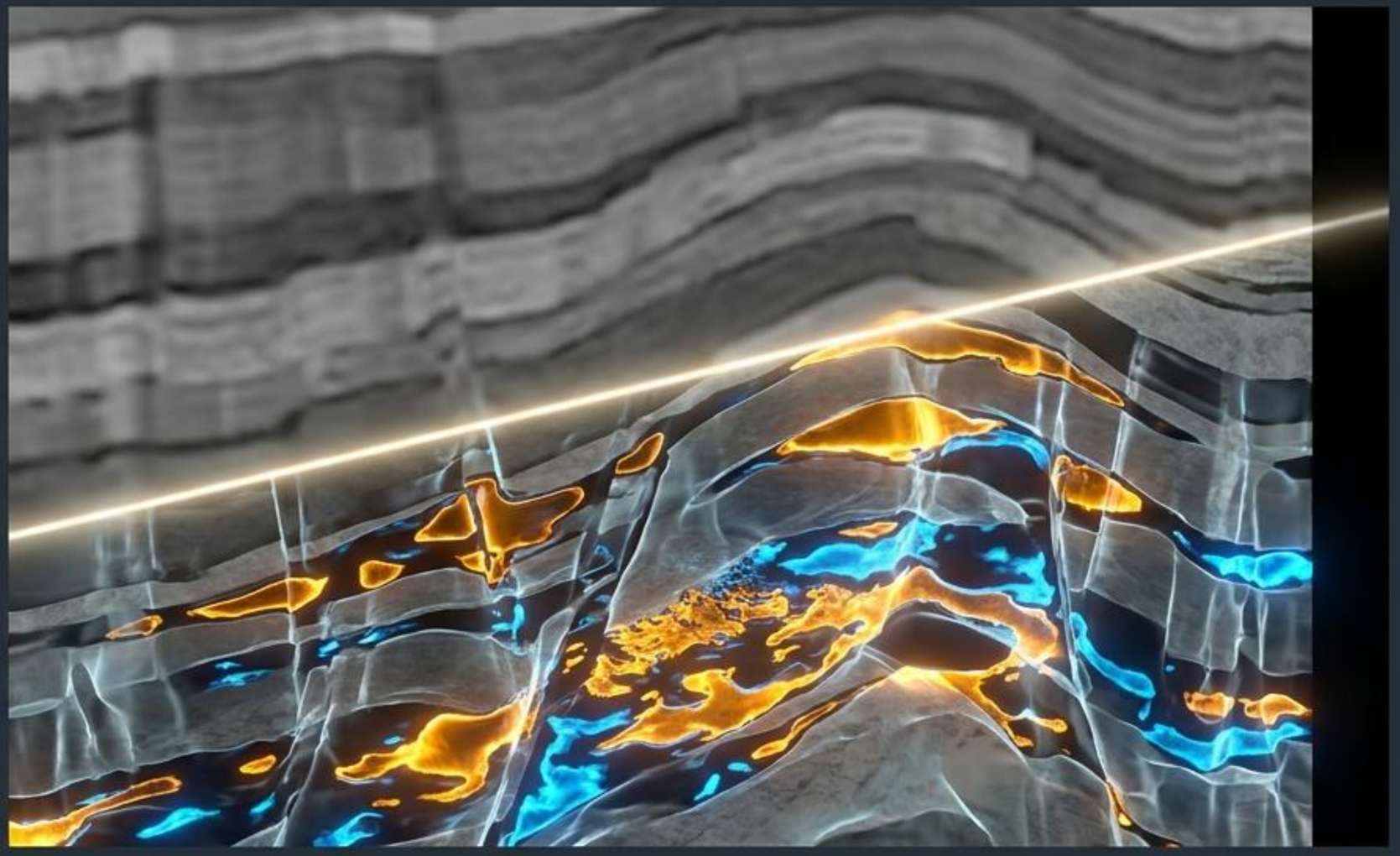
GROUP POISK
RSS-NMR SEVSU Poisk

СЕВАСТОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

RSS NMR
THE SIMPLE WAY OF EXPLORATION

Revealing the Hidden Pay

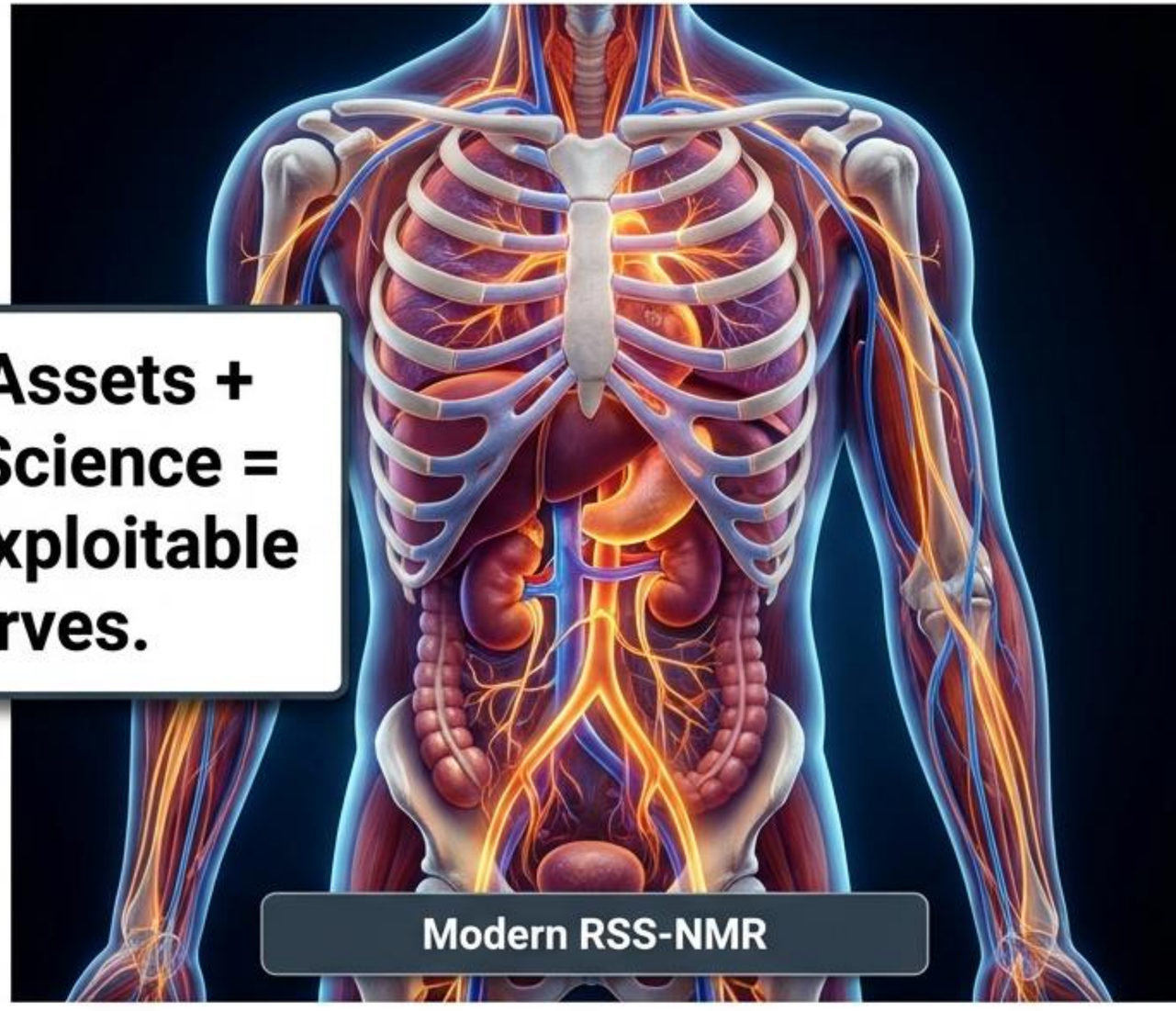
Transforming Legacy Brownfields into High-Margin Assets via RSS-NMR.



The Brownfield Paradox

1960s 2D & 1980s 3D Seismic

Legacy Assets + Modern Science = Proven, Exploitable Reserves.

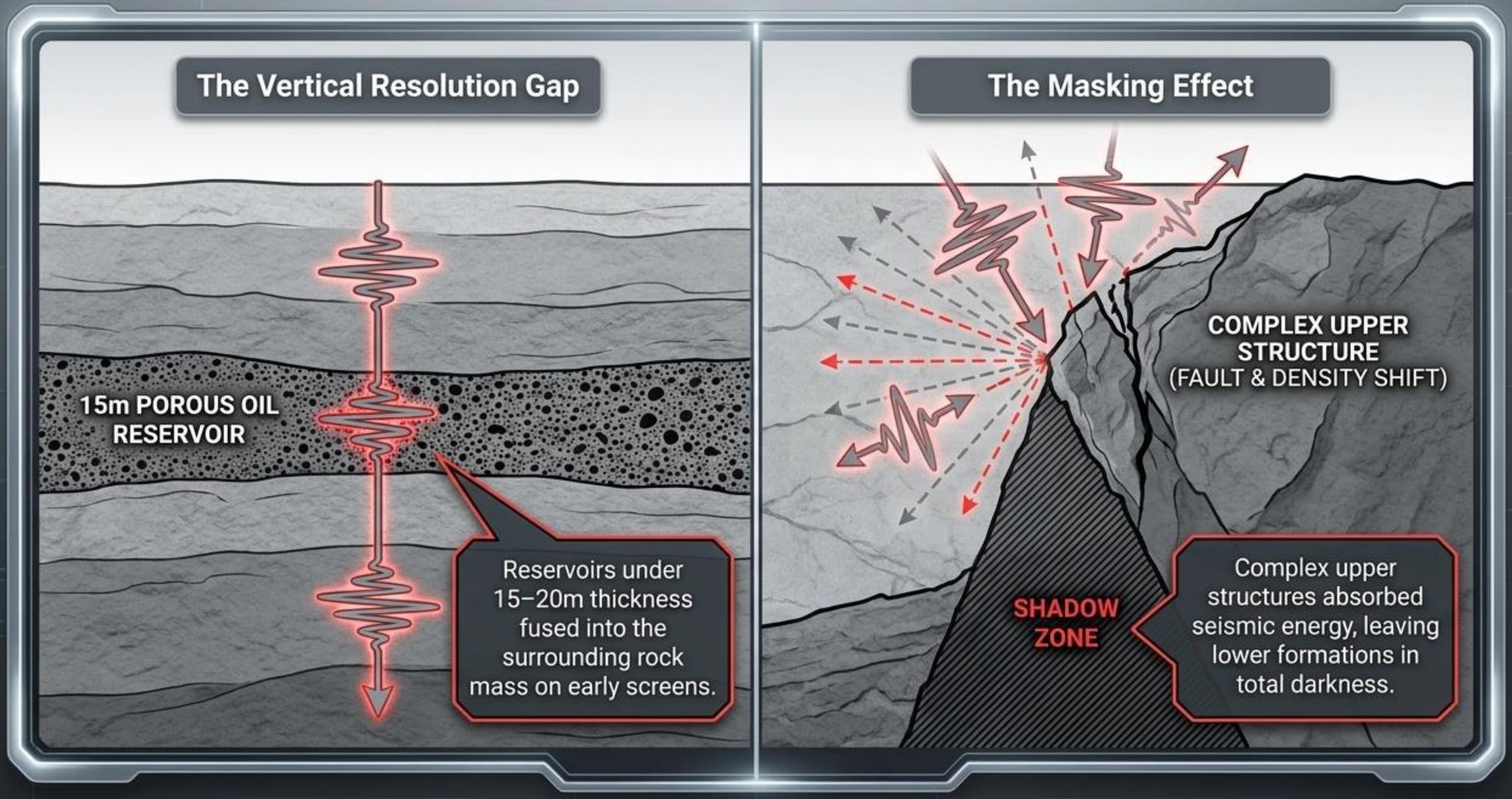


Modern RSS-NMR

Working with historical seismic data is like reading a blurry medical radiograph. Operators can deduce broad structural contours, but critical, high-margin details remain invisible.

RSS-NMR rewrites the geological history of the block, proving that 'exhausted' assets are actually rich with hidden pay zones.

Why Legacy Technologies Missed the Oil

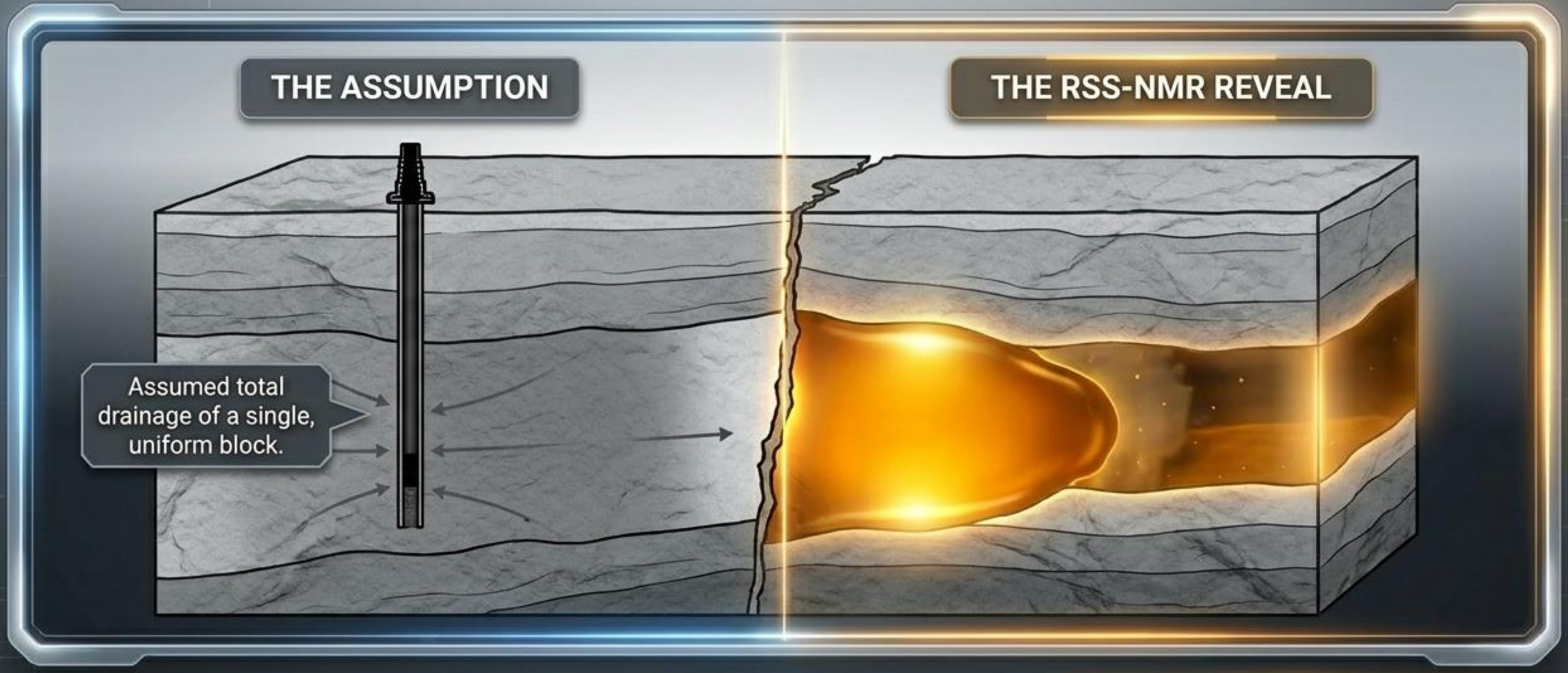


Moving from Rock Impedance to Fluid Signatures

	Legacy Seismic	RSS-NMR
Primary Target	Acoustic impedance of solid rock.	Direct targeting of fluids via Hydrogen signatures.
Spatial Resolution	Broad structural geometry; blind to formations <20m.	High-fidelity, pore-level mapping.
Complex Geology	Blinded by structural masks and density shifts.	Bypasses rock matrix entirely to illuminate shadow zones.

Key Takeaway: RSS-NMR doesn't attempt to improve the picture of the rock. It frees itself from the rock entirely to look directly at the fluid.

Discovery I: Isolated Compartments

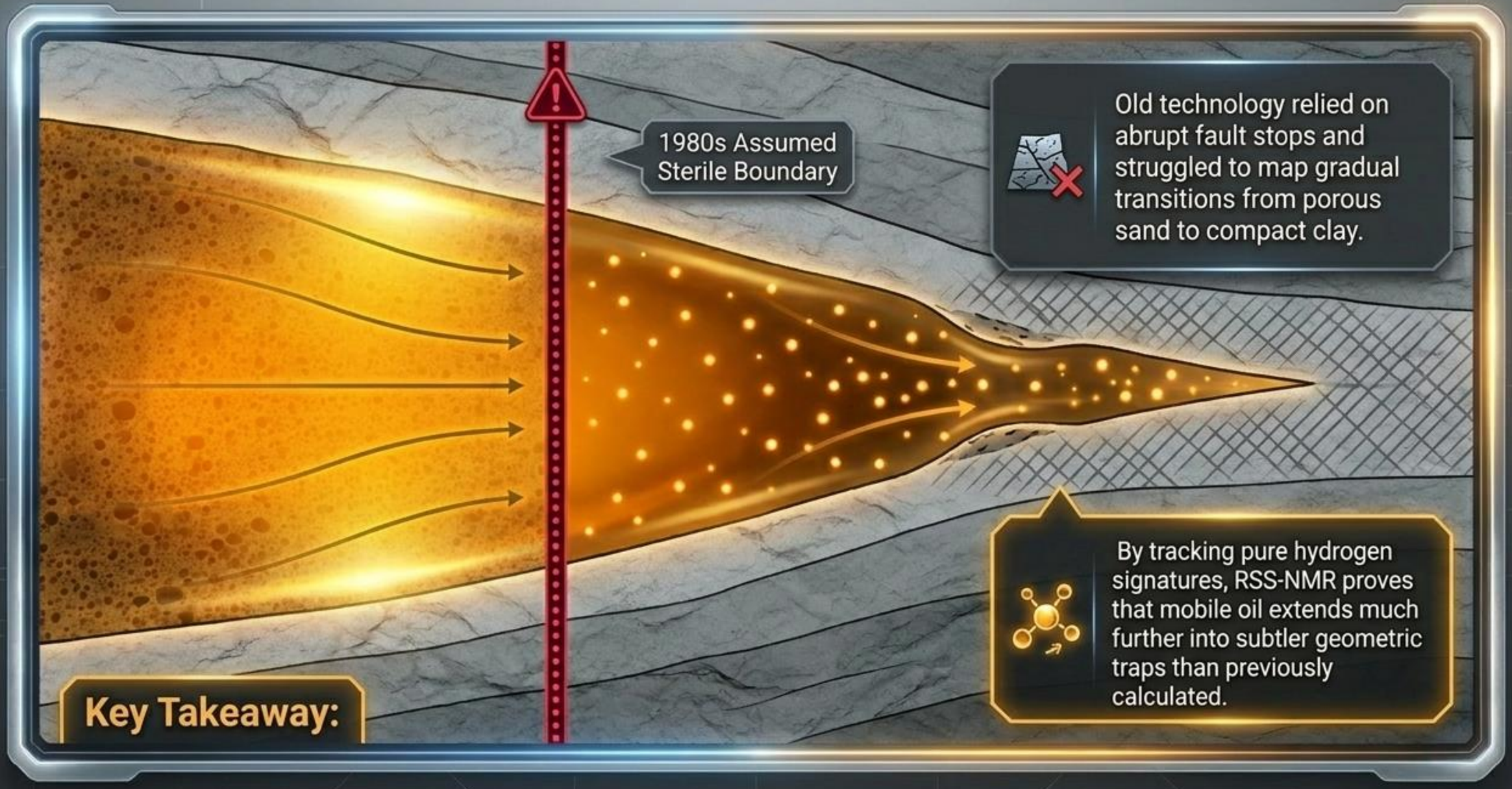


Legacy mapping visualized massive, continuous structures.

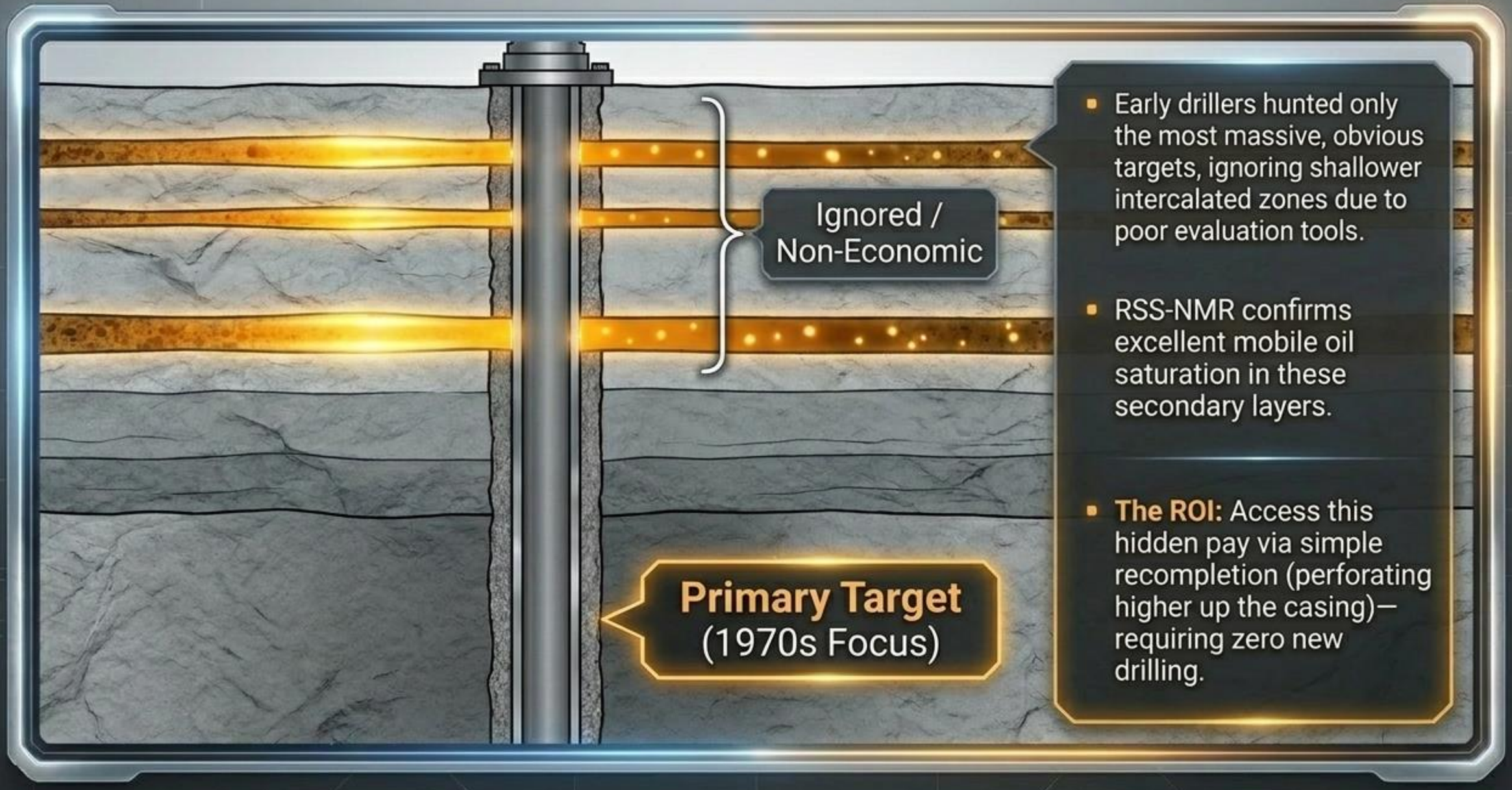
RSS-NMR reveals tight segmentation by impermeable micro-failes (micro-faults).

The Result: Intact, high-pressure compartments sitting immediately adjacent to historical production wells, completely untouched.

Discovery II: Stratigraphic Traps & Pinch-Outs



Discovery III: Bypassed Secondary Pay

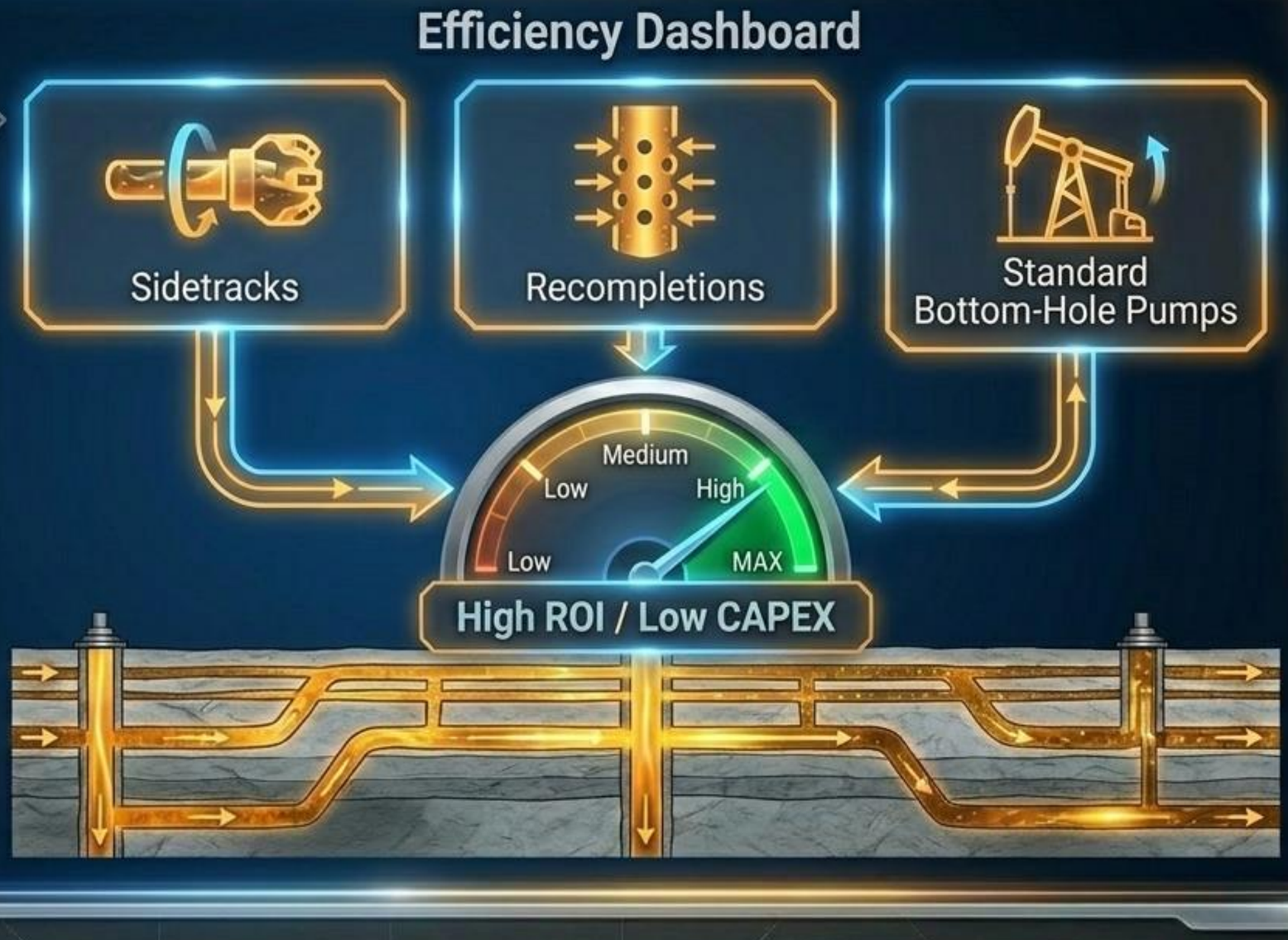


- Early drillers hunted only the most massive, obvious targets, ignoring shallower intercalated zones due to poor evaluation tools.
- RSS-NMR confirms excellent mobile oil saturation in these secondary layers.
- **The ROI:** Access this hidden pay via simple recompletion (perforating higher up the casing)—requiring zero new drilling.

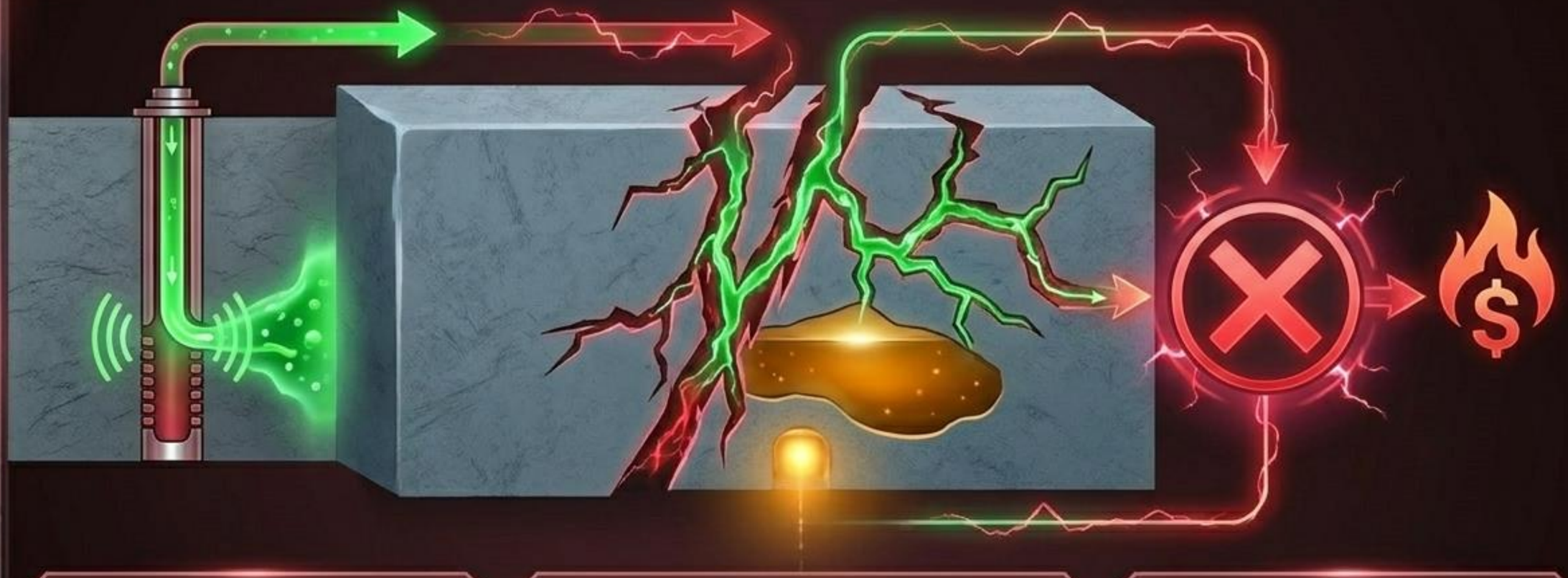
The Absolute Reservoir Lifecycle Strategy

Phase 1: Maximizing Traditional Recovery

- Before investing millions in Tertiary Recovery, RSS-NMR allows operators to push conventional methods to their absolute limits.
- By targeting bypassed pockets of high-porosity mobile oil, operators amortize current installations.
- Prolong natural production and standard water injection without major technological overspend.



The EOR Dilemma: Why Blind Injection Fails

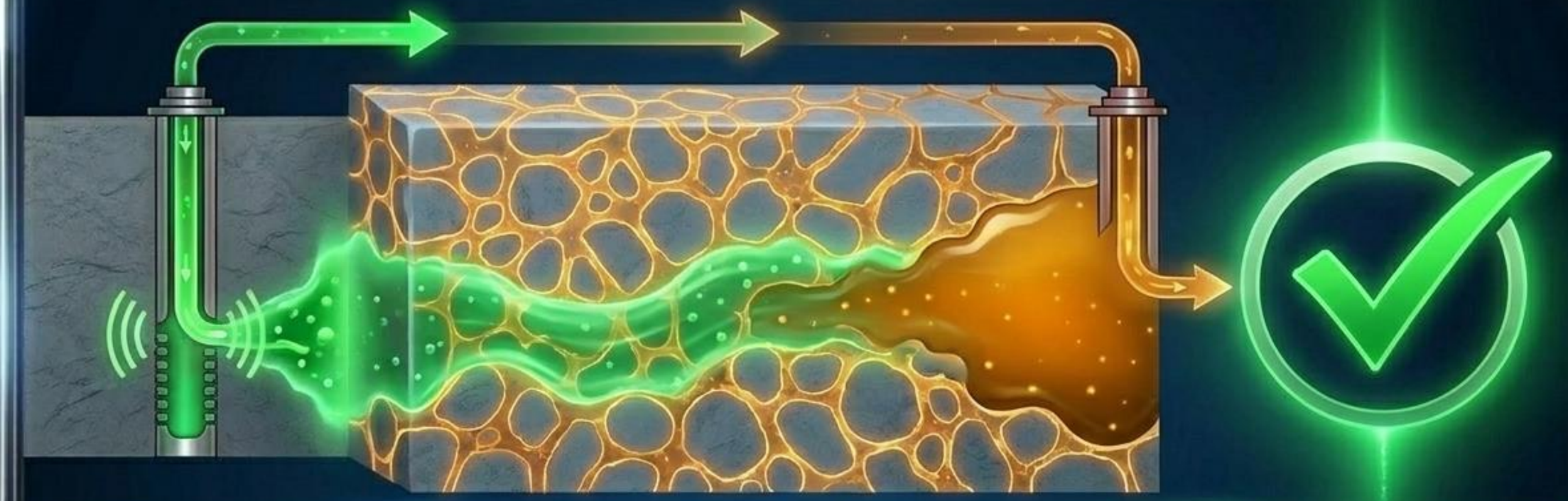


Enhanced Oil Recovery (Polymers, Surfactants, CO2, Thermal) is highly capital intensive.

Applying EOR blindly across an entire block based on legacy geometric data guarantees chemical waste and disastrously poor sweep efficiency.

If you don't know exactly where the trapped oil is, your chemicals will only find the empty fractures.

Phase 2: RSS-NMR as the ‘Smart EOR’ Enabler



Residual Oil Saturation (Sor):
Continuous/spectral NMR measures the exact volume of immobile oil stuck to pore walls, proving mathematical profitability before injection begins.

Permeability & Heterogeneity Mapping:
Delivers a clear image of pore size distribution. Operators predict exactly how polymers or gas will sweep the reservoir, enabling hyper-targeted "Smart EOR".

Rewriting Geological History

What engineers in the 1960s and 80s abandoned due to technical limitations is now your most profitable asset. By leveraging RSS-NMR, operators transform administrative shadow zones into proven, immediately exploitable reserves—extracting every last drop with maximum capital efficiency.

Made in Russia

Voluntary certification system «Made in Russia»
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Reg. № РОСС RU.31685.04РЭ03 from the 24th of May 2017

Система добровольной сертификации «Сделано в России»
Зарегистрирована в Едином реестре зарегистрированных систем добровольной сертификации
Рег.№ РОСС RU.31685.04РЭ03 от 24 мая 2017 г.

CERTIFICATE OF CONFORMITY

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ CC.002667

Valid from 20.10.2025 **to** 05.10.2028
Срок действия с по

Applicant/Manufacturer: Poisk Group LLC, 299040, Russia, Sevastopol, st. Khrustaleva, 143
Заявитель/Изготовитель: ООО "ГРУППА ПОИСК", 299040, Россия, г. Севастополь, ул. Хрусталева, д. 143

Products: Methodology for calculating predicted ore resources in deep-lying deposits, using the parameters of ore bodies obtained using remote geospace methods of geological exploration and field geophysical equipment of the Poisk complex (FEACN of the CU 9015809100)
Продукция: Методика подсчета прогнозных ресурсов руд в глубокозалегающих залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геокосмических методов георазведки и полевой геофизической аппаратуры комплекса "Поиск" (Код ТН ВЭД ЕАЭС 9015809100)

Comply with the voluntary certification system "Made in Russia" requirements.
Соответствует требованиям Системы добровольной сертификации «Сделано в России».

Certificate is issued on the basis of: Declaration of conformity company Poisk Group LLC on the Reliability of the voluntary certification system "Made in Russia" dated 07.10.2025 No. 1/25.
Сертификат выдан на основании: Декларации о соответствии компании ООО "ГРУППА ПОИСК" № 1/25 от 07.10.2025 по направлению "Надежность" системы добровольной сертификации "Сделано в России".

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РОССИЙСКИЙ ЭКСПОРТНЫЙ ЦЕНТР

003645

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРИБОР-ЭКСПЕРТ»
Рег. № РОСС RU.31578.04ОЛН0 от 16.11.2016 г.

ПЭ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ [illegible]

Срок действия с 26.09.2025 по 25.09.2028

№ 0057630

ОРГАН ПО СЕРТИФИКАЦИИ [illegible]

[illegible]

ПРОДУКЦИЯ Методика подсчета прогнозных ресурсов руд в глубокозалегающих залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геокосмических методов георазведки и полевой геофизической аппаратуры комплекса «Поиск» [illegible]

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НА ОСНОВАНИИ
[illegible]

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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.