

Subsurface Illumination: The Geocosmic Advantage

De-risking hydrocarbon exploration with
the 'Poisk' remote sensing and field
validation complex.



Executive Summary



The Technology

Remote aerospace sensing seamlessly coupled with precise 'Poisk' field apparatus.



The Proof

Field-tested and validated across varied geological complexities, scaling from 9 km² micro-grids to 1,700+ km² regional scans.



The Result

Empirically confirmed flow rates, 70-75% anomaly mapping reliability, and drastic reductions in exploratory dry-hole expenditures.

THE CONSTRAINTS OF TRADITIONAL EXPLORATION



Time-Intensive

Standard exploration cycles require 2–3 years to complete.



Low Success Rate

Traditional methods yield an accuracy rate of only 25–45%.



Indirect Detection

Relies on secondary physical field anomalies rather than detecting the resource itself.



Capital Risk

High financial expenditure required for uncertain results.

THE 'POISK' COMPLEX: DIRECT REMOTE DETECTION

CORE TECHNOLOGY:

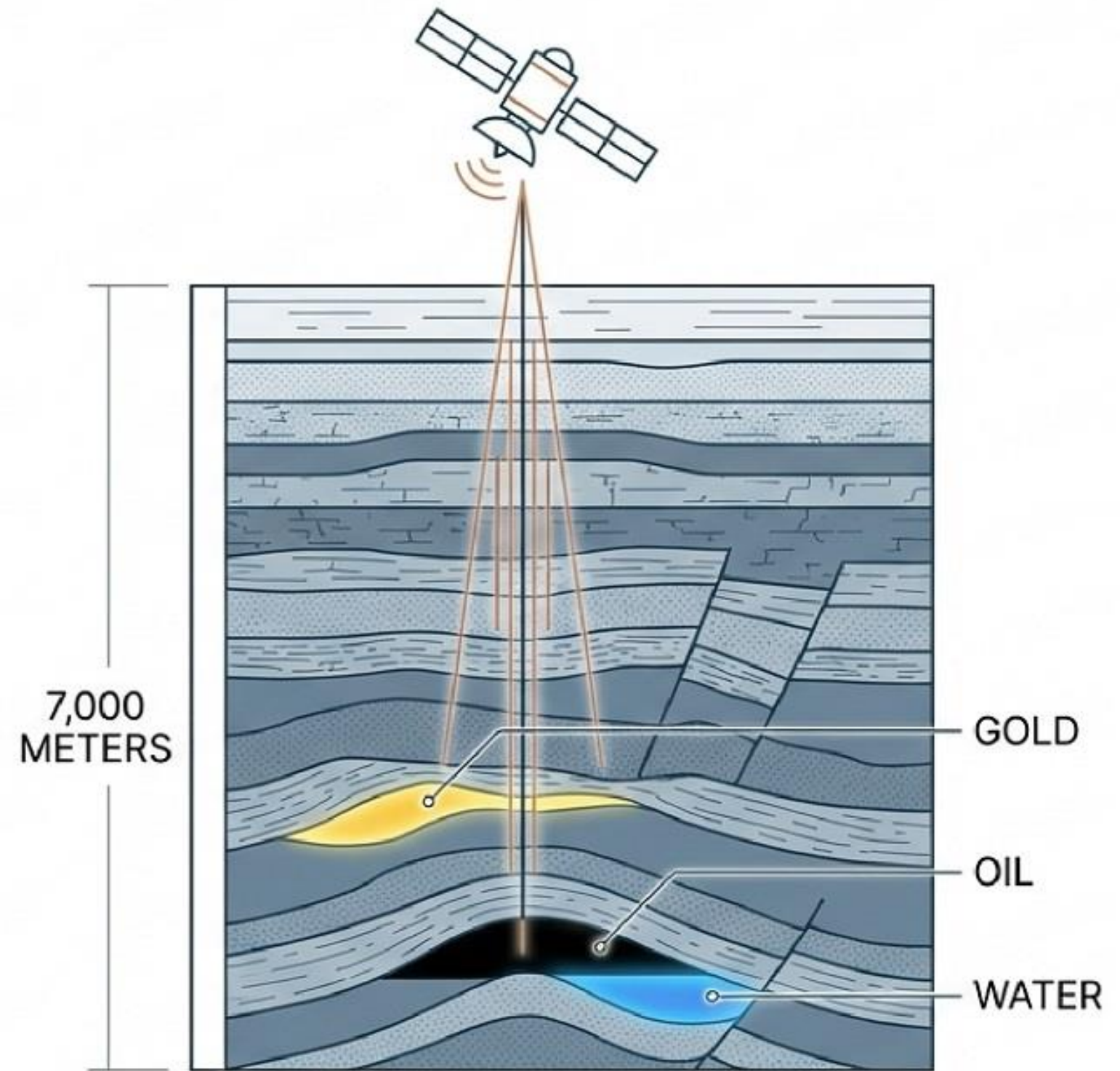
- Utilizes Nuclear Magnetic Resonance (NMR) spectra analysis in the Earth's magnetic field.
- Integrates with electromagnetic resonance testing via satellite or airborne sensing.

KEY DIFFERENTIATOR:

- Detects the specific material type (Oil, Gas, Water, Polymetals) rather than just rock anomalies.

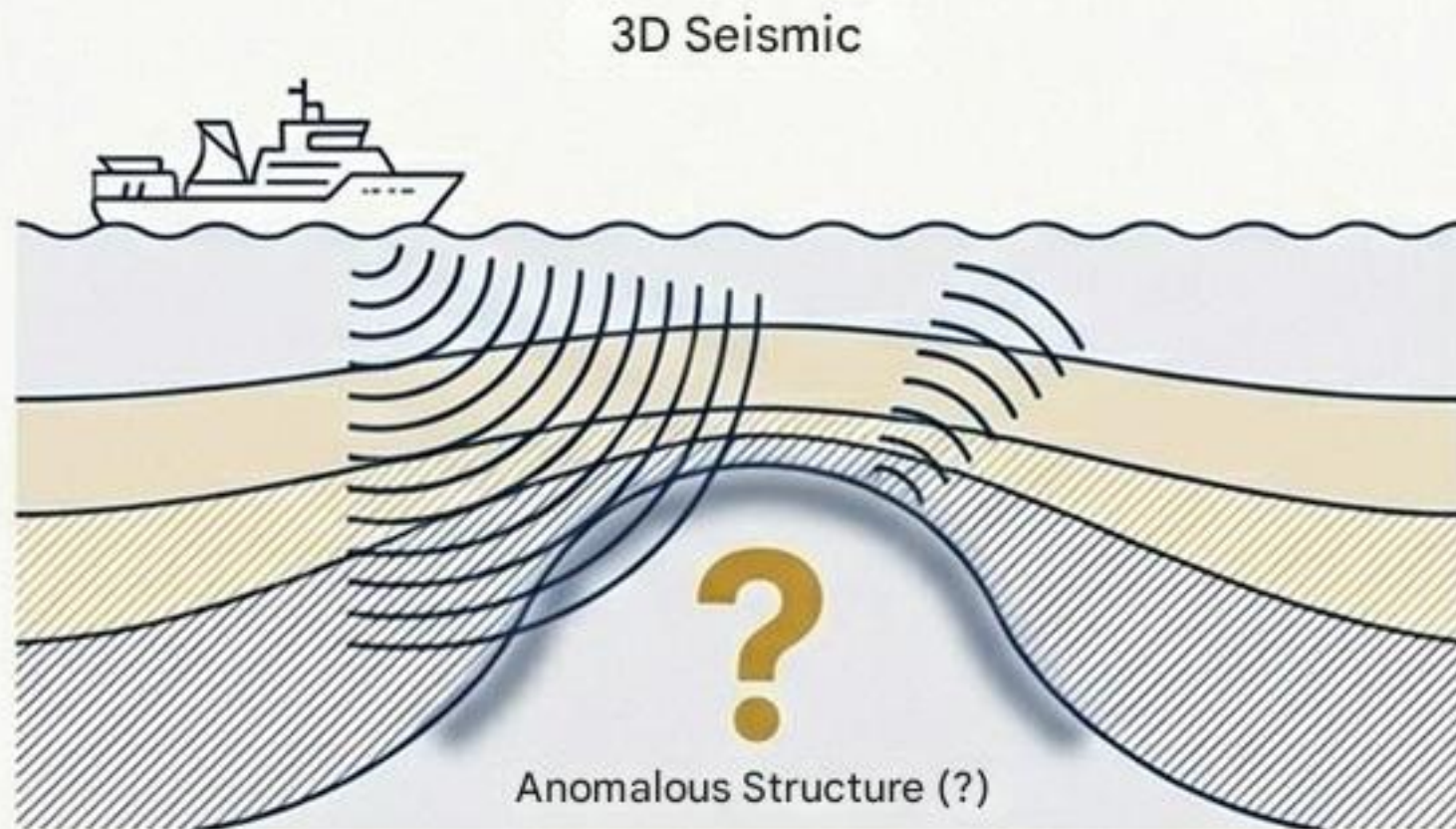
OPERATIONAL DEPTH:

- Effective detection up to 7,000 meters into the Earth's interior.



The Fundamental Flaw: We're Looking for 'Anomalies', Not Hydrocarbons

Seismic technology is limited by its operating principle:



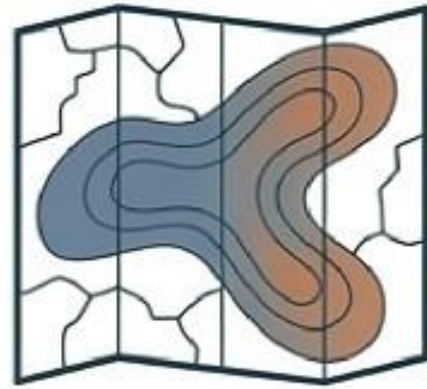
It generates a 'faceless' energy signal that is reflected by geological boundaries. The result is the identification of a structural anomaly, not the confirmation of a substance.

The only real confirmation? Drilling, with all its cost and associated risk.

Direct Confirmation



TWO-STAGE EXPLORATION METHODOLOGY



STAGE 1: REMOTE GEOCHEMISTRY

Duration: 0–2 Months

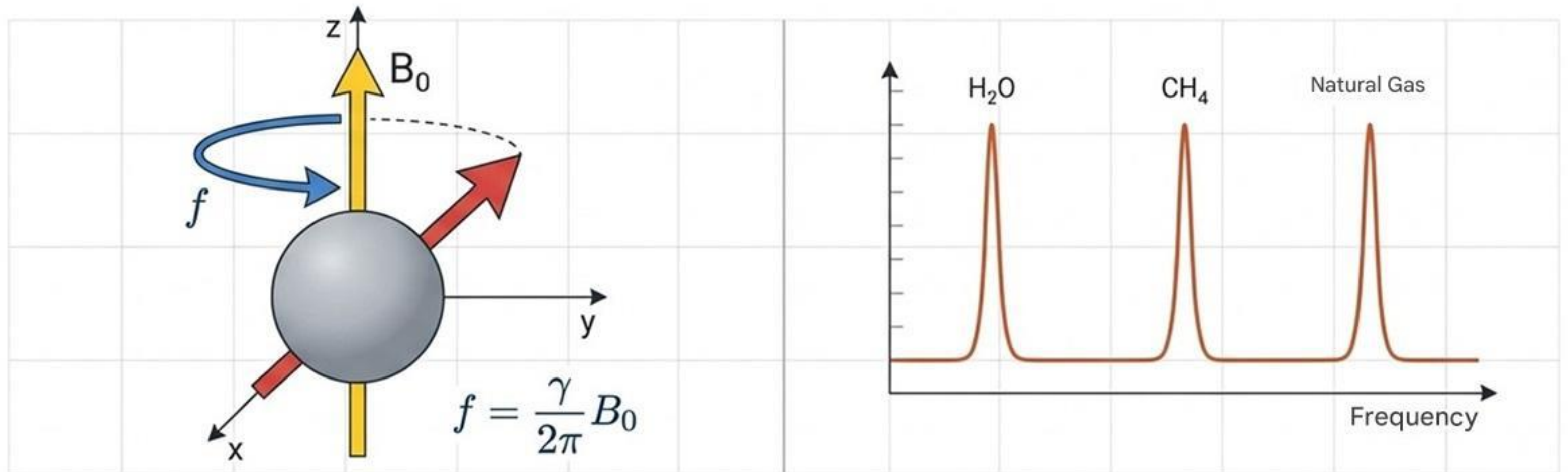
- **Objective:** Identify dispersion halos over large territories.
- **Deliverable:** Conclusive report on presence/absence of anomalies.

STAGE 2: PRECISION DELINEATION

Duration: 2–3 Months

- **Objective:** Refine anomaly boundaries via satellite imagery.
- **Deliverable:** Exact drill point identification, tectonic fault mapping, depth analysis, and industrial concentration estimates.

Each substance has a spectral "fingerprint" that we can read remotely.



The technology is based on the effect of Nuclear Magnetic Resonance (NMR). By exciting atomic nuclei, we measure their resonance frequency. This "chemical shift" is unique to each molecule (water H_2O , methane CH_4 , etc.), allowing for unambiguous identification of the substance being sought, separating its signal from background noise.

Know-How: Radiochemical Processing of Satellite Images



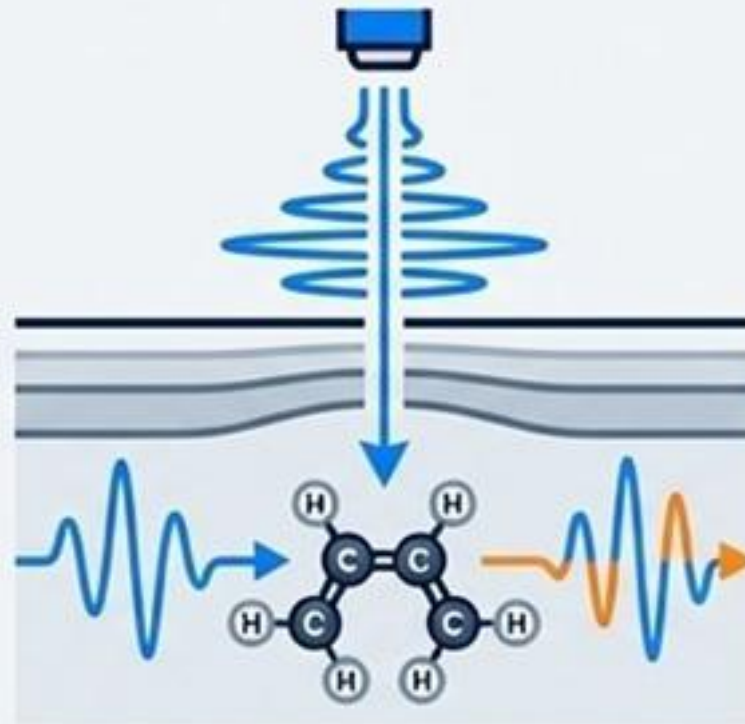
This patented process allows the satellite image to be 'filtered' to reveal only the areas where the target mineral is present, based on the resonance between the control plate and the deposit itself.

Our 3-step process for direct hydrocarbon mapping.



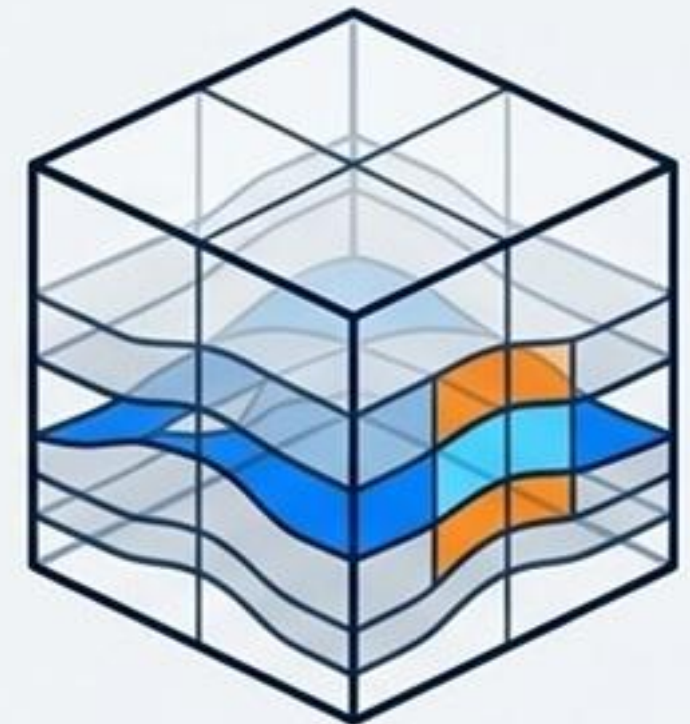
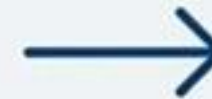
Step 1: Satellite Image Processing

Analysis of satellite images (NASA, Roscosmos) with proprietary processes to amplify spectral anomalies associated with hydrocarbons.



Step 2: Far Resonance Analysis

Induction of high-frequency electromagnetic fields to excite target atoms. Sequential recording of their characteristic resonance signal for unambiguous identification.



Step 3: Modeling and Reporting

Compilation of data to create accurate 4D maps delineating potential accumulations and estimating volumes ("oil in place").

PERFORMANCE METRICS VS. TRADITIONAL METHODS

COST EFFICIENCY

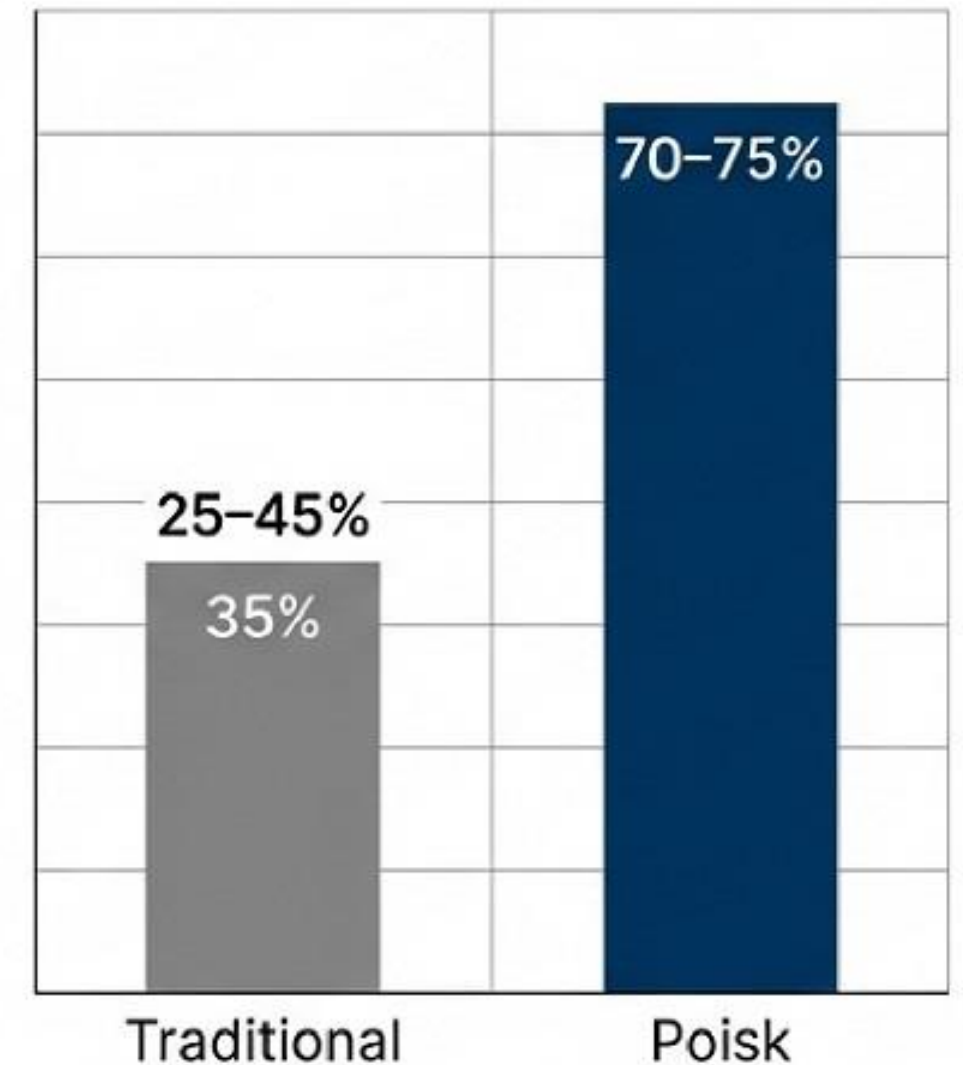
10-15x

Reduction in financial expenditure compared to standard exploration.

SPEED



ACCURACY



STRATEGIC BUSINESS IMPACT

RISK MITIGATION



Significantly reduces financial risks associated with "blind" exploration methods.

PRE-DRILLING INTELLIGENCE



Identification of tectonic faults and exact drilling points before heavy machinery is deployed.

RESOURCE ESTIMATION



Provides estimated volume of hydrocarbon/ore resources during the remote phase.

Concrete Deliverables for Confident Decisions

Upon completion of our survey, you will receive a comprehensive report and actionable data, not ambiguous interpretations.



Terrain map with precise reservoir **contours**.



Zones of maximum signal response to identify "sweet spots".



Deep vertical column at points of **interest**.



Determination of the number of useful horizons.



Depth and **thickness** of each horizon.



Presence and estimated pressure of **gas caps**.



Presence of water horizons and their **thickness**.



Preliminary calculation of projected **resources**.



Identification of optimal **drilling locations**.

Portfolio of Proof

Micro Validation (Irkutsk)	Area: 9 km ²	Target: Oil	Drilled & Proven
Meso Complexity (Rozovskoye, Saratov)	Area: 115 km ²	Complex (Gas/Oil)	Mapped & Refined
Macro Scale (Saltykovskoye, Saratov)	Area: 1,714 km ²	Regional Scan	Operational

A portfolio of proof demonstrating mathematical and operational reliability across drastically different scales.

Case Study 1: Irkutsk Region (The Micro Validation)

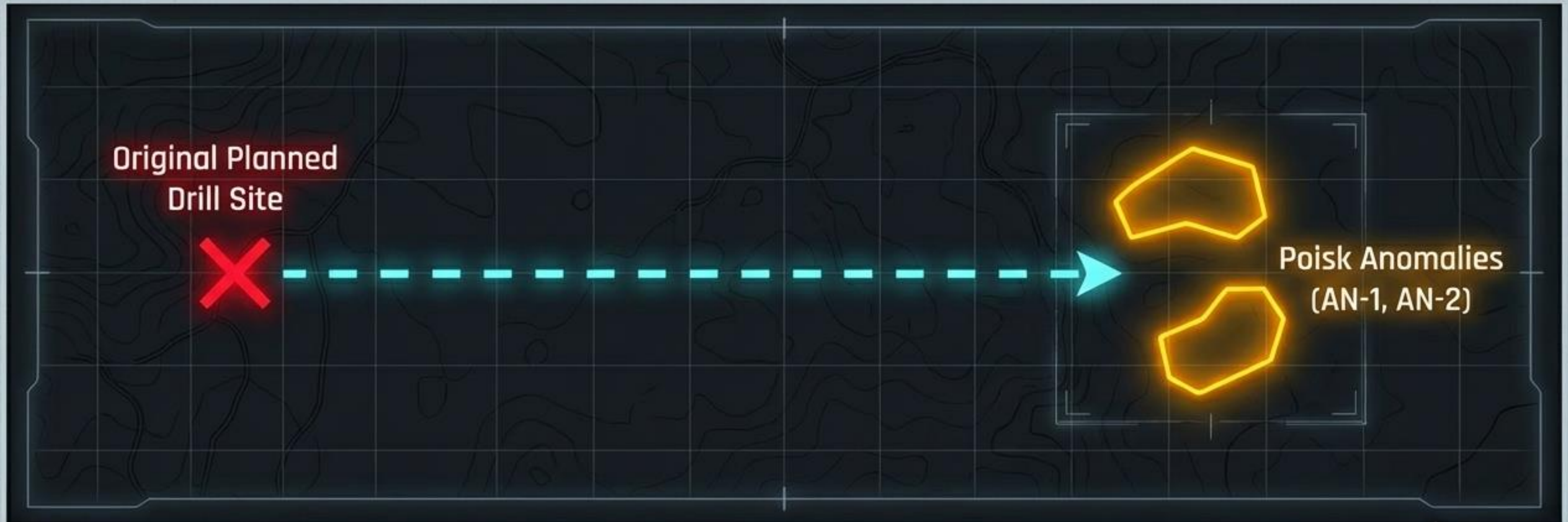


[CLIENT: Irkutskie gornye mashiny]
[AREA: 9 km²]
[DATE: May 2019]
[TARGET: Oil]

Mission Briefing: The core objective was to conduct a localized search around a pre-selected, traditional drilling site to confirm viability before capital deployment.



Irkutsk: The 'Missed Target' Discovery



The traditional exploration method had selected a suboptimal drill site. The 'Poisk' method intervened, identifying the true anomalies at a significant distance from the original point, successfully redirecting capital away from a guaranteed dry hole.

Irkutsk: Empirical Confirmation

Confirmed Yields:

27 to 121 tons
per day

- Validation Method: Fracking on Wells #310, #317, and #308.

Official Conclusion:

The scientific team's coordinates and depth calculations were absolutely confirmed.

Practical application significantly reduces exploration costs.



Case Study 2: Rozovskoye Field (The Meso Complexity)

[PROJECT: Saratov-3]

[AREA: 115 km²]

[FIELD: Rozovskoye]

[DATE: June-Nov 2020]



Mission Briefing: Identify anomalies near conserved Well #3 and conduct a comprehensive diagnostic mapping of the broader 115 km² license area.

Rozovskoye: Advanced Diagnostic Mapping

Diagnostic Classification Table

Gas-Condensate

GKA-1

GKA-2

GKA-3

Oil-Gas

NGA-1

NGA-2

NGA-3

NGA-4

NGA-5

Gas

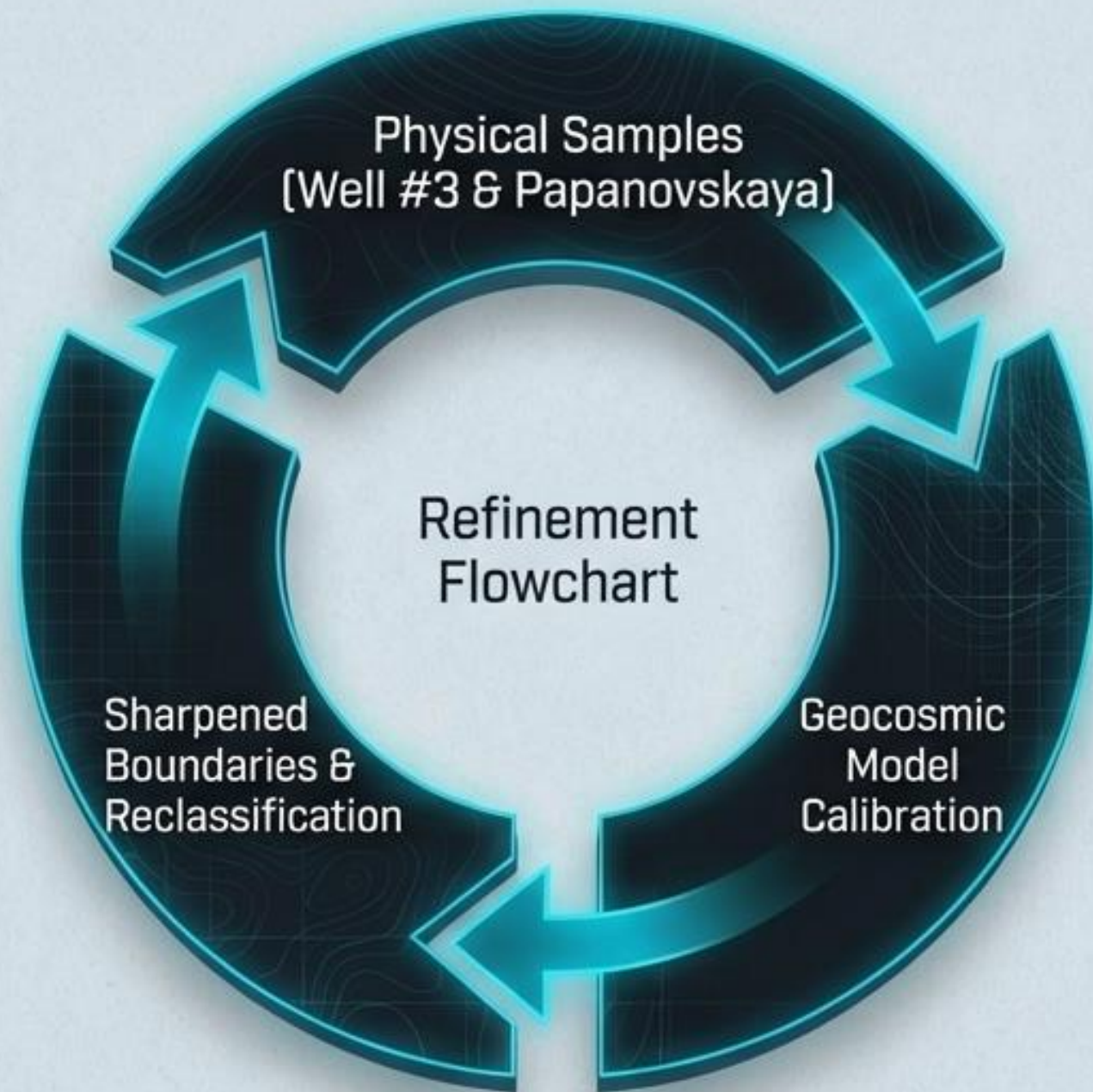
GA-1

GA-2

GA-3

Beyond geographical presence, the 'Poisk' complex provides crucial chemical diagnostics, fundamentally altering extraction strategies before drilling commences.

Rozovskoye: Data Refinement & Iteration



Expansion (Oct-Nov 2020)

New zone identified (NGA-1A) with precise mapping of S1A $\approx 0.2 \text{ km}^2$.

New oil anomaly (NA-1) located in the southwest.

Reclassification

Gas Anomaly GA-3 correctly re-diagnosed as Gas-Condensate Anomaly GKA-4.

GA-1 re-diagnosed as NGA-6.

Takeaway: The model dynamically sharpens its accuracy upon ingestion of physical field data.

Rozovskoye: Economic Prioritization



Highly Prospective Targets: GKA-1, GKA-4, GKA-2, GKA-3, NGA-1, NGA-6.

Flagged Low-Pressure Zones: NGA-3, NGA-4, NGA-5 (System detected significant drop in gas signal intensity, warning of difficult extraction).

Formal technical conclusion establishes verified anomaly mapping reliability at 70-75%.

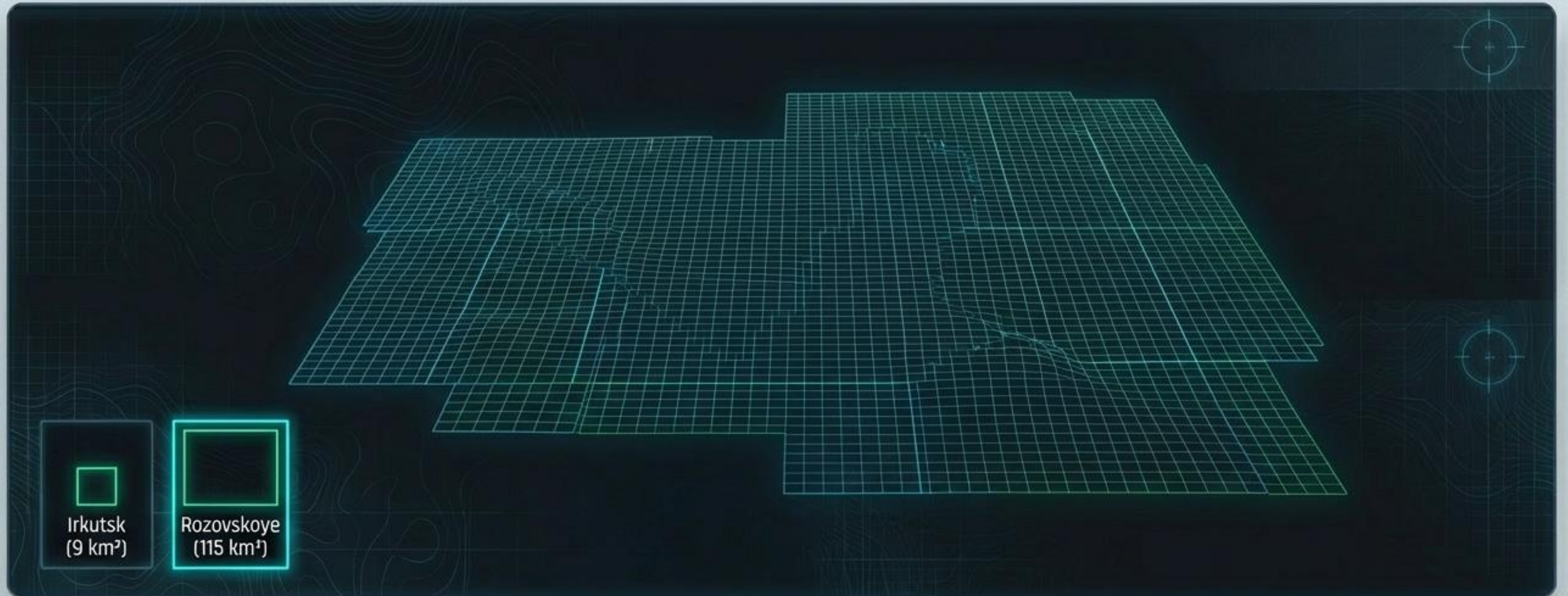
Case Study 3: Saltykovskoye Field (The Macro Scale)

[PROJECT: Saratov-3A]

[AREA: 1,714 km²]

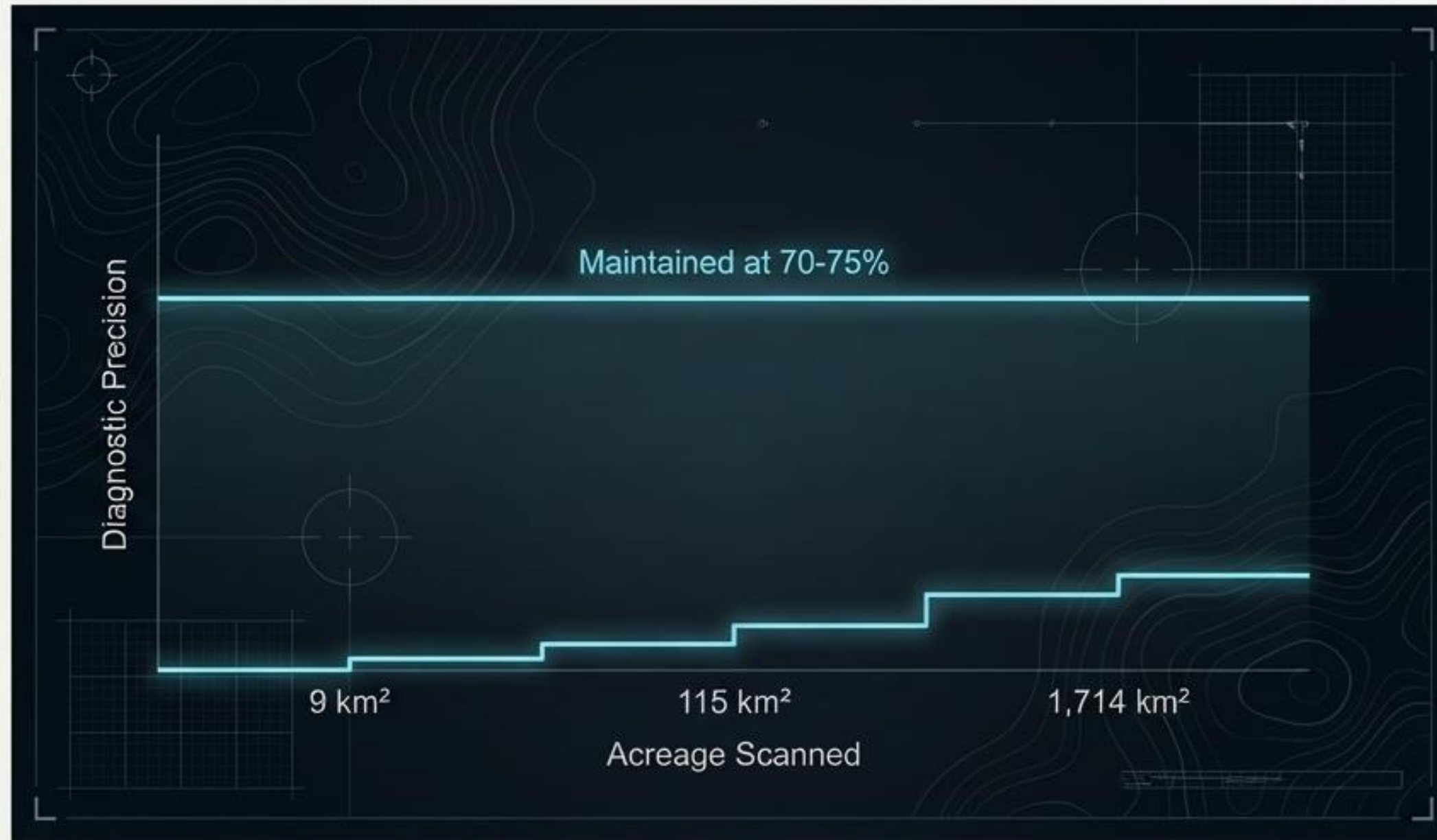
[FIELD: Saltykovskoye]

[DATE: June–Sept 2020]



Mission Briefing: Rapidly scan a massive, regional-scale frontier license area to dictate exactly where highly expensive traditional seismic surveys should—and shouldn't—be deployed.

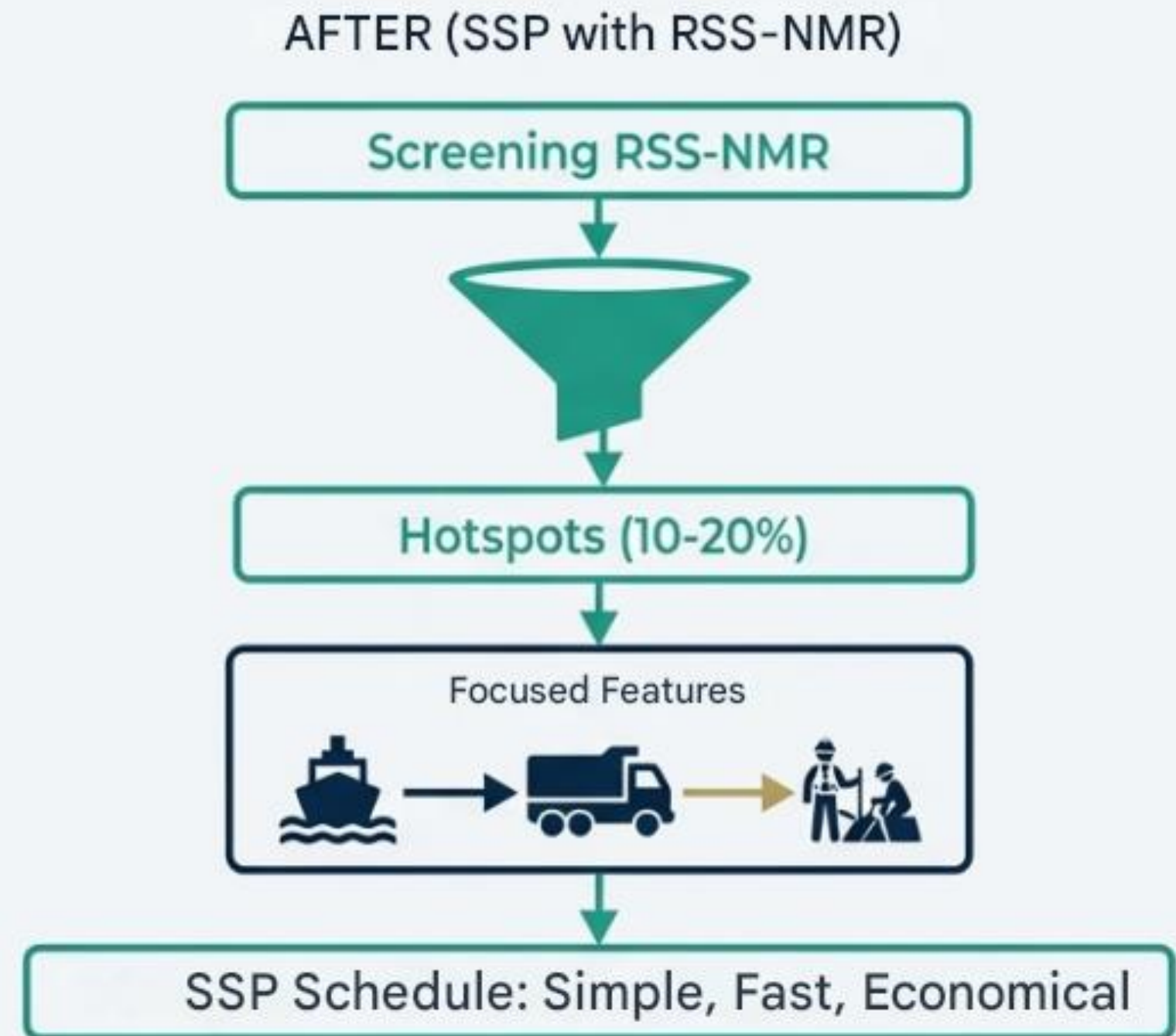
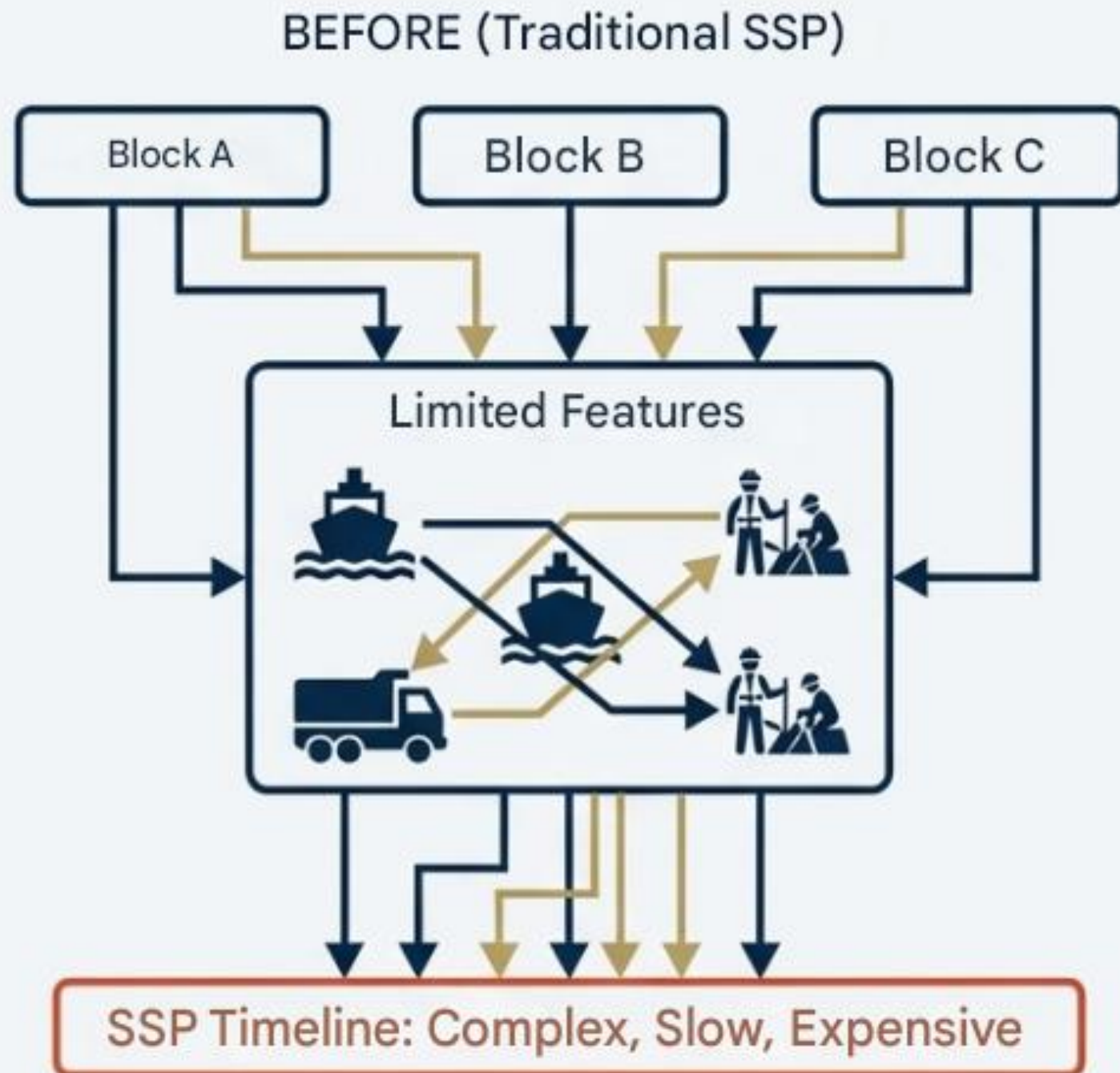
Synthesis: The Scalability of Success



The 'Poisk' complex successfully decouples exploration scale from exploration cost. Whether micro-adjusting a single well coordinate or scanning a massive regional frontier, diagnostic precision is mathematically maintained.

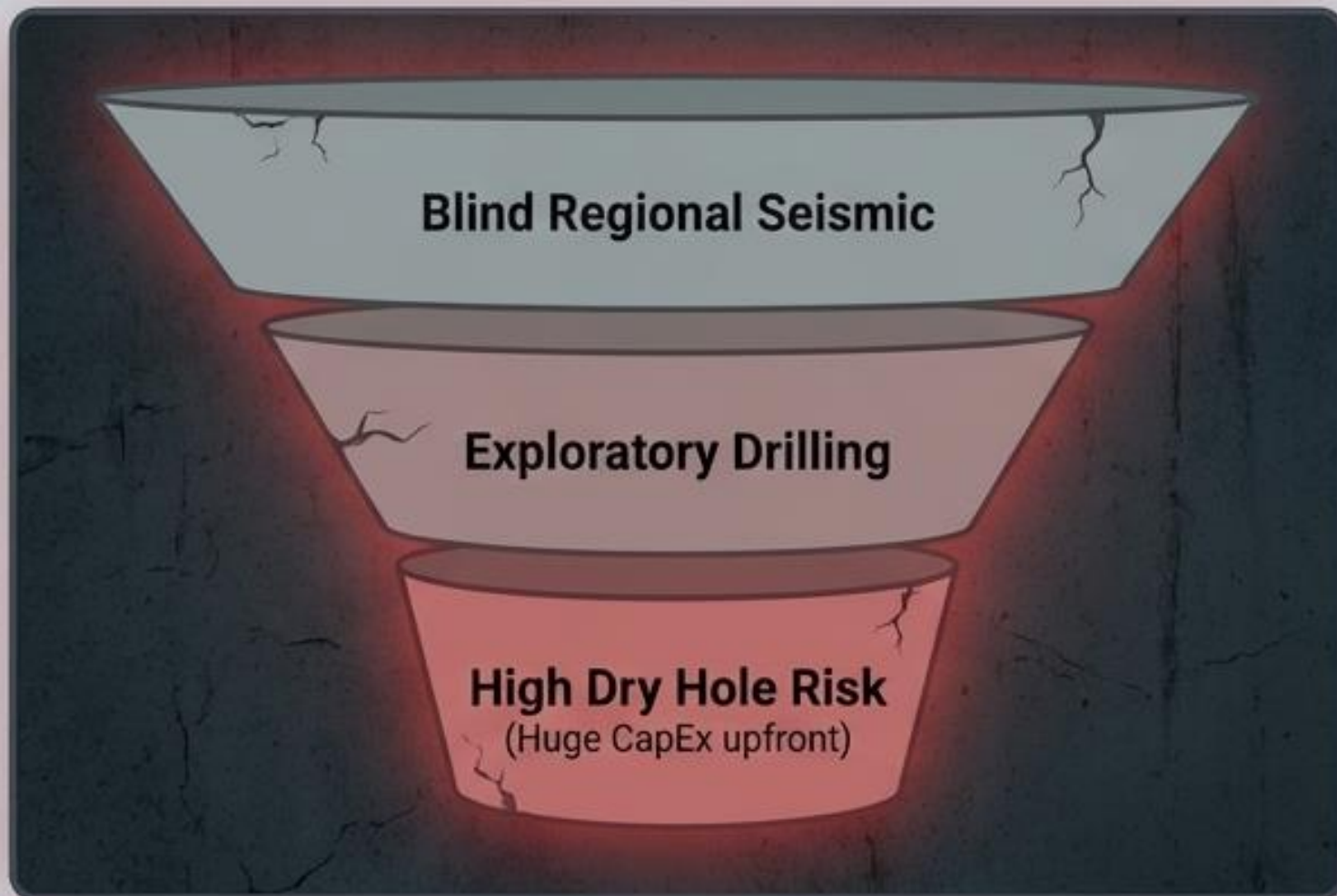
Transforming the Seismic Scheduling Program (SSP)

Traditional SSP is a complex problem of optimizing resources, costs, and operational windows. RSS-NMR acts as a strategic filter before SSP, radically simplifying the process.

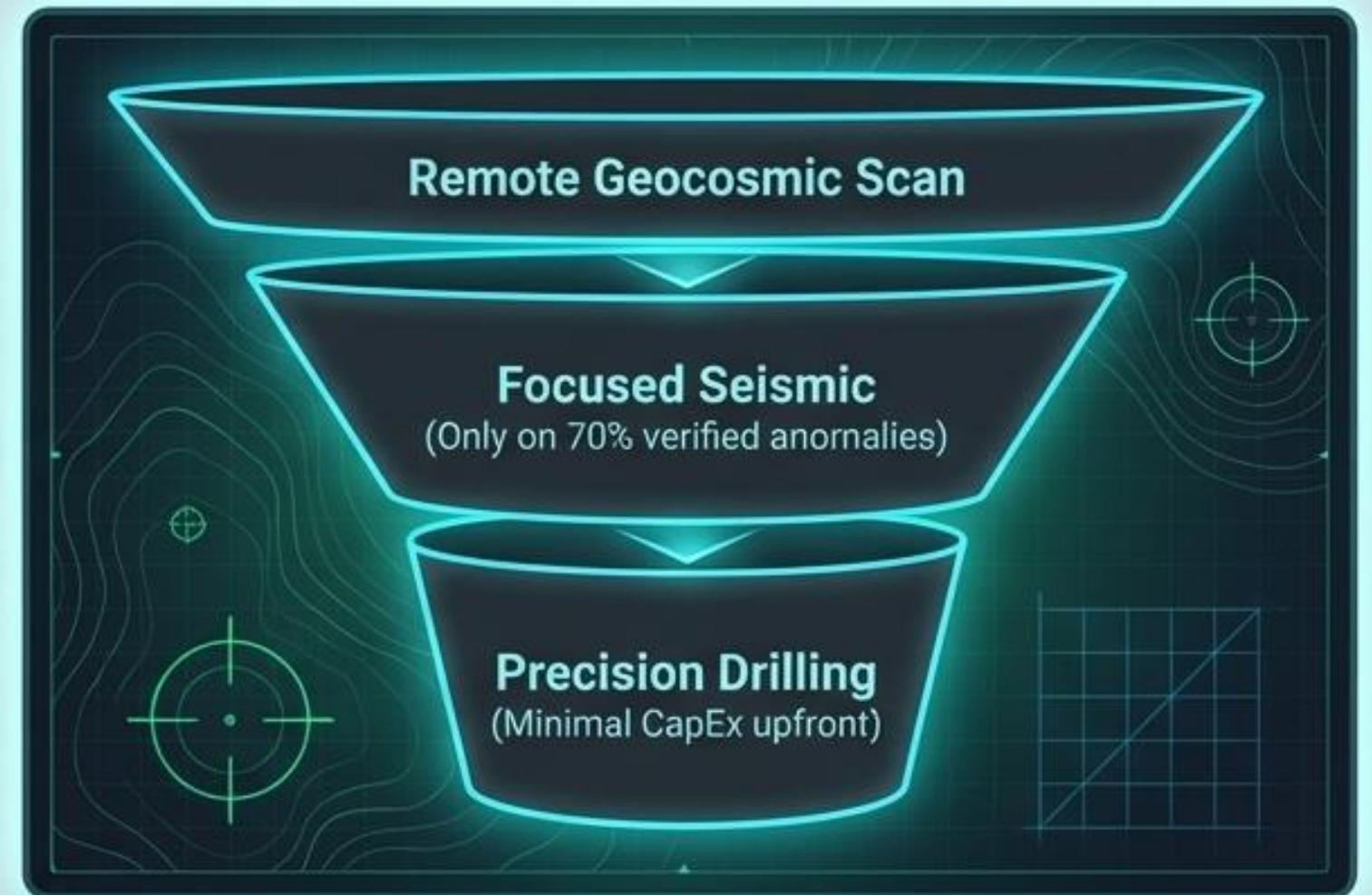


The Economic Reality

The Traditional Pipeline



The 'Poisk' Augmented Pipeline



De-risk regional acreage completely before committing to heavy capital expenditure.

DEFINITION OF THE GEOLOCATION PERIMETER WITH RSS-NMR

T1: 45° 28' 58.00" N | 11° 23' 46.23" E

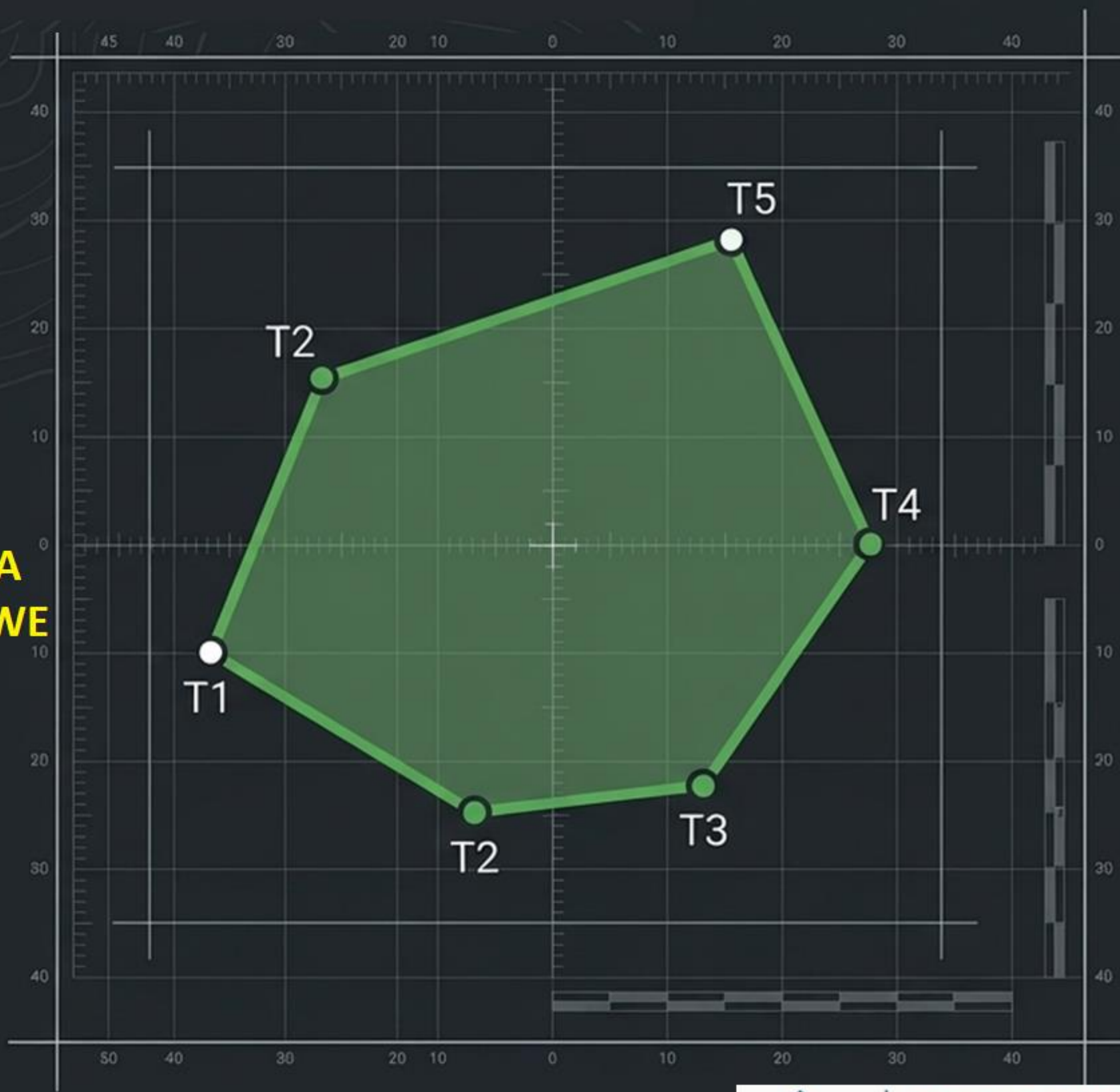
T2: 45° 28' 54.13" N | 11° 23' 45.01" E

T3: 45° 28' 55.59" N | 11° 23' 50.51" E

T4: 45° 29' 01.87" N | 11° 23' 47.37" E

T5: 45° 29' 00.40" N | 11° 23' 41.86" E

THESE ARE THE MARKING POINTS OF THE AREA TO EXPLORE FROM THE LABORATORY WHEN WE CONDUCT AN EXPLORATION FOR YOU.



СЕВАСТОПОЛЬСКИЙ
ГОСУДАРСТВЕННЫЙ
УНИВЕРСИТЕТ



RSS NMR
THE SIMPLE WAY OF EXPLORATION
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Система добровольной сертификации «Сделано в России» Зарегистрирована в Едином реестре зарегистрированных систем добровольной сертификации Рег.№ РОСС RU.31685.047000 от 24 мая 2017 г.

CERTIFICATE OF CONFORMITY СЕРТИФИКАТ СООТВЕТСТВИЯ

№ CC.002647

Valid from 20.10.2025 to 05.10.2028

Срок действия с по

Applicant/Manufacturer: Poisk Group LLC, 299640, Russia, Sevastopol, st. Kristallnaya, 143

Заявитель/Производитель: ООО «ГРУППА ПОИСК», 299640, Россия, г. Севастополь, ул. Кристалля, д. 143

Products: Methodology for calculating predicted air emissions 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 (FEACH of the CU 901809100)

Продукция: Методика расчета прогнозируемых выбросов в глубоководных залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геоспациальных методов геологического изучения и полевой геофизической аппаратуры комплекса «Поиск» (код ТН ВЭД ЕАЭС 901809100)

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 № 105. Сертификат выдан на основании: Декларации о соответствии компании ООО «ГРУППА ПОИСК» № 105 от 07.10.2025 на соответствие «Надежность» системы добровольной сертификации «Сделано в России».

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Vice President
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002645

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРИМОР-ЭКСПЕРТ»
Рег. № РОСС RU.31678.046000 от 14.11.2016 г.



СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.31678.046000

Срок действия с 20.10.2025 по 05.10.2028

№ 0057630

ОБЛАСТЬ СЕРТИФИКАЦИИ: РОСС RU.31678.046000

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ПРОДУКЦИЯ: Методика расчета прогнозируемых выбросов в глубоководных залежах, с использованием параметров рудных тел, полученных с помощью дистанционных геоспациальных методов геологического изучения и полевой геофизической аппаратуры комплекса «Сделано в России».

код СЦ
01.11.11

СООТВЕТСТВИЕ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

код ТН ВЭД

ИСТОЧНИК: Общество с ограниченной ответственностью «Группа Поиск», ОГРН 1105018000000, ИНН 5045018000, адрес: 143000, РОССИЯ, городские округа: Дмитровский, ул. Прибл. Юзовский, д. 143, телефон: +7(495) 927-47-47, адрес электронной почты: poisk@poisk.ru

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НА ОСНОВАНИИ

Протокола испытаний № 001.1-2025.01 от 20.10.2025 года, проведенный Национальным экспертным Центром России РОСС RU.31678.046000



ДОСТОВЕРНОСТЬ ИЛИ НЕДОВОЕРЕННОСТЬ
Сфера сертификации: 1)



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Сертификат выдан в соответствии с требованиями системы добровольной сертификации

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- In Charge: World

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.