

# PRECISION SUBSURFACE TARGETING

Identifying Hydrocarbons, Porosity,  
and Pressure from 6,000 Meters  
Using the Poisk Resonance Complex

A Technical Capabilities & Validation Briefing

# 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

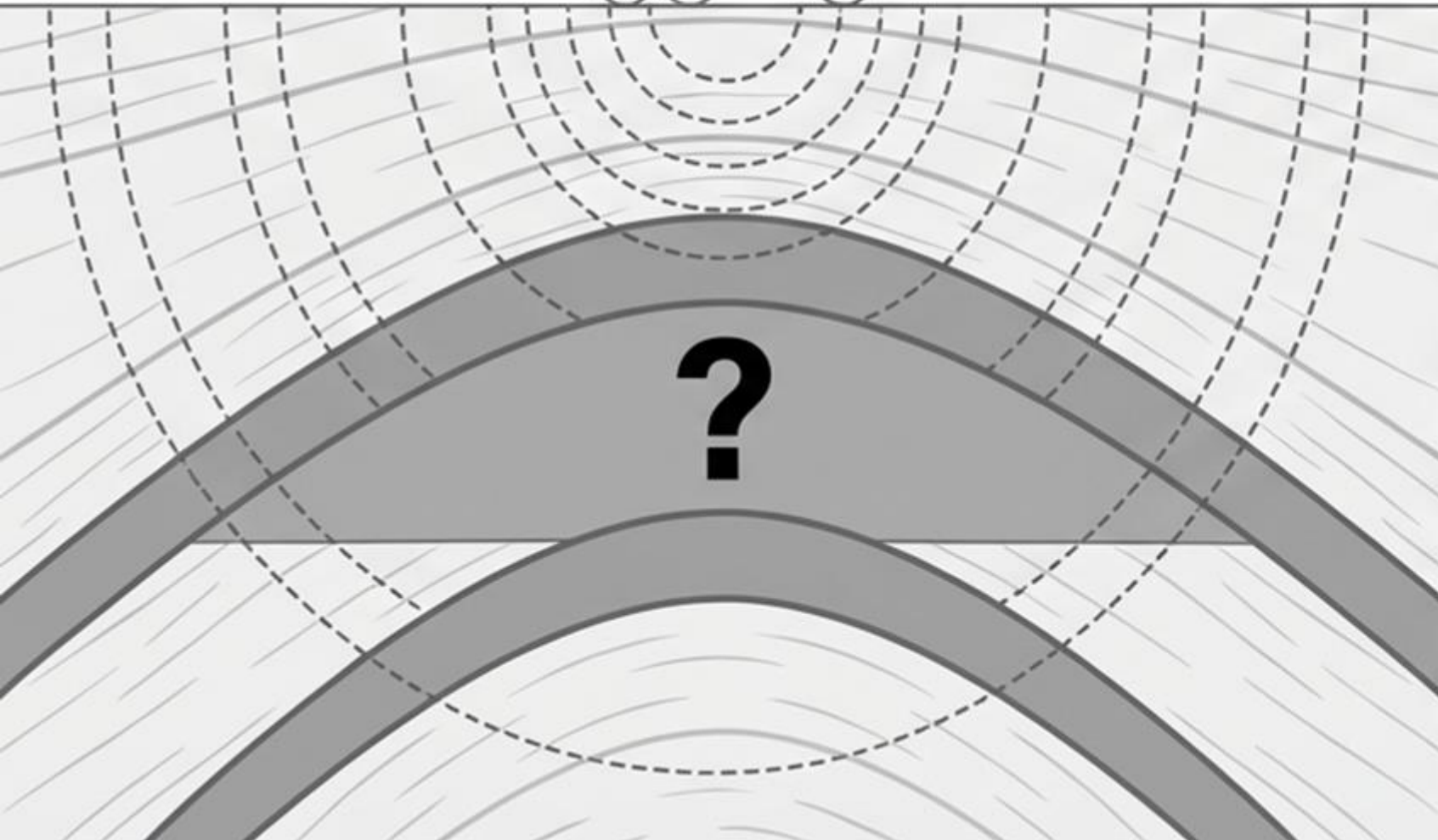
High financial expenditure required for uncertain results.

# The Multi-Million Dollar Blind Spot

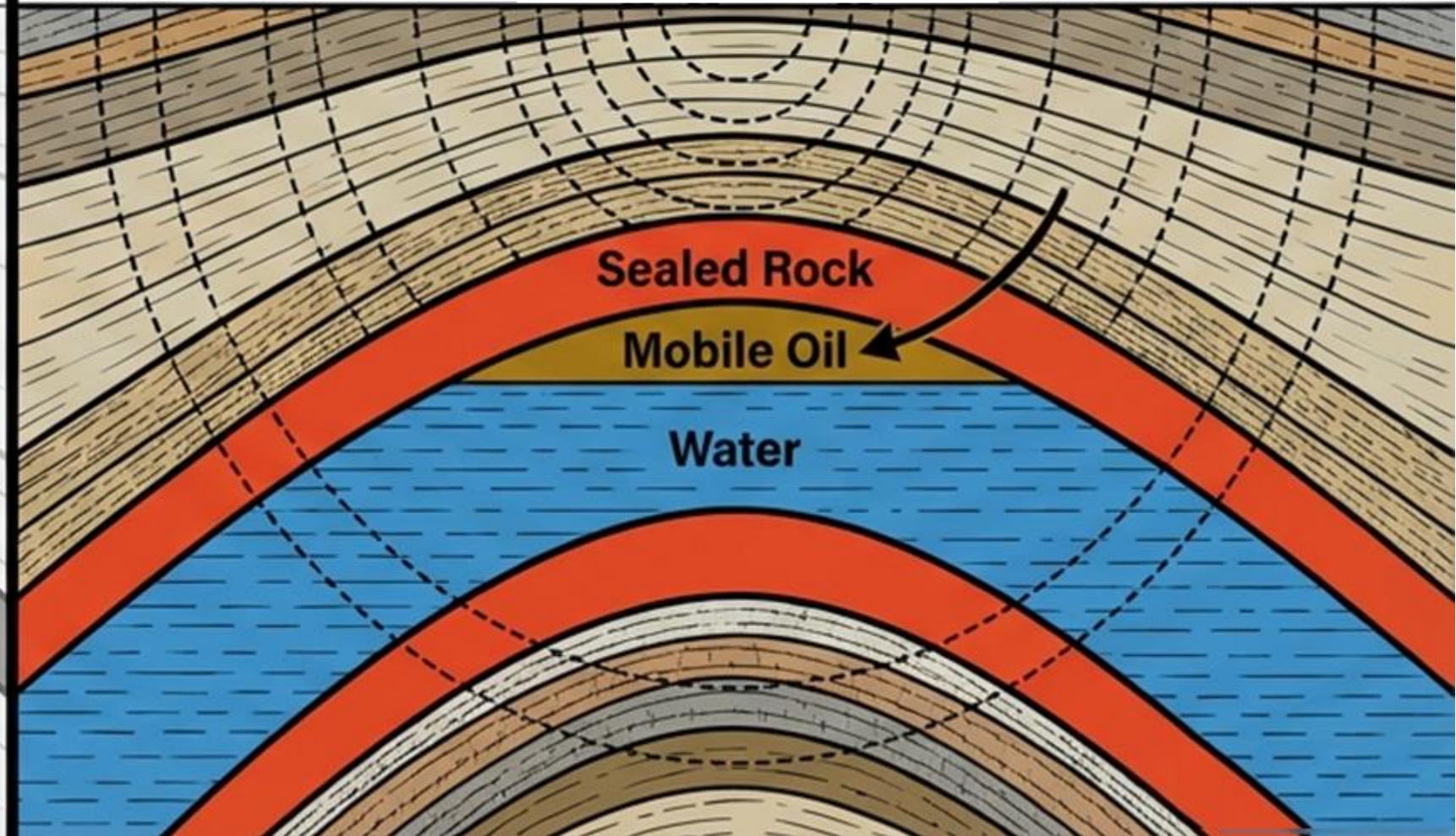
Identifying a trap is **not the same** as identifying a reservoir. Without knowing fluid type and rock porosity prior to drilling, structural data frequently leads to dry holes.

Traditional geophysical methods like seismic reflection are structural tools. They successfully map geological traps, but they cannot see the internal characteristics of the rock.

## TRADITIONAL SEISMIC



## THE POISK REALITY



# THE 'POISK' COMPLEX: DIRECT REMOTE DETECTION

## CORE TECHNOLOGY:

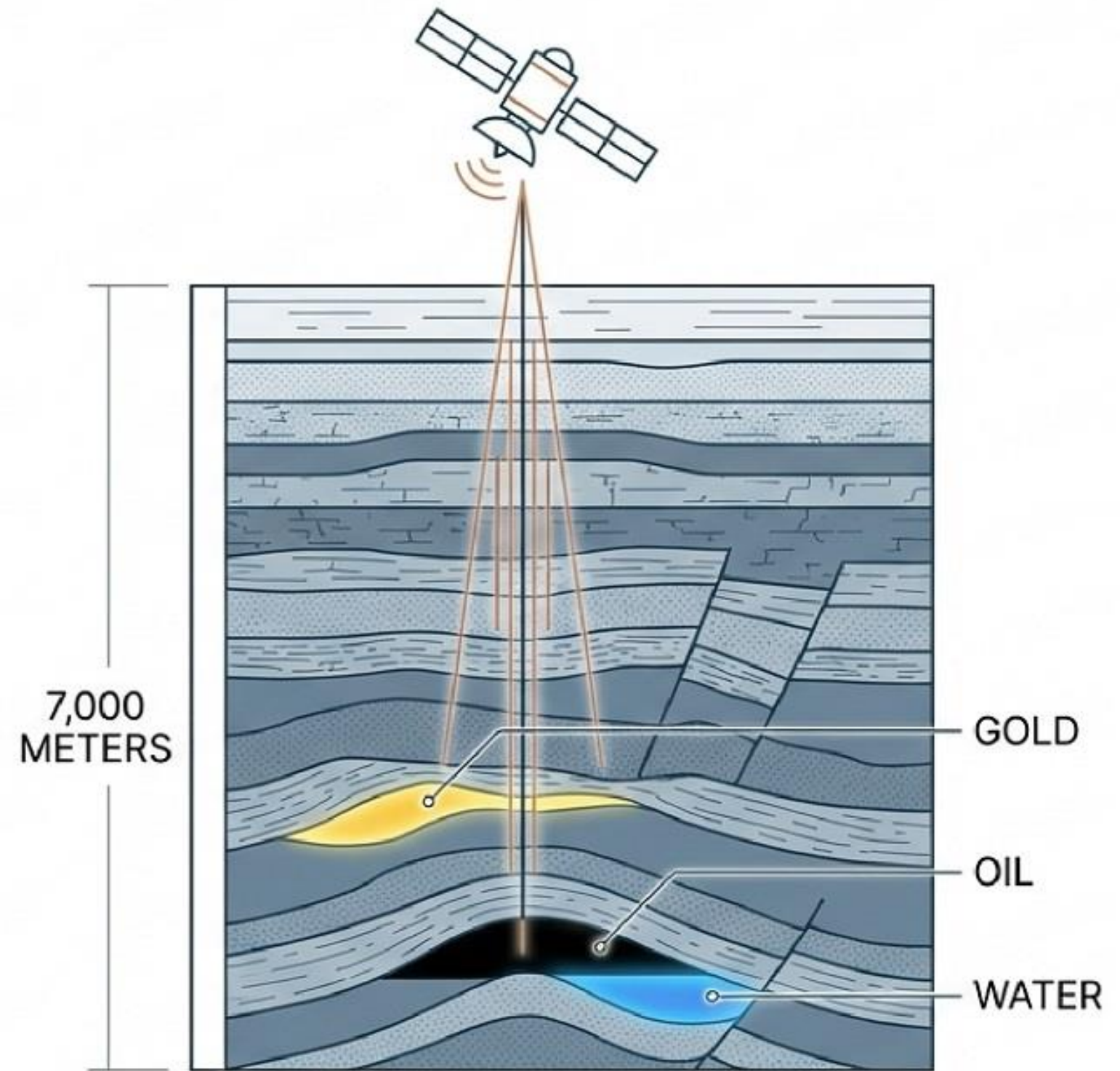
- Utilizes Nuclear Magnetic Resonance (NMR) spectra analysis in the Earth's magnetic field.
- Integrates with electromagnetic resonance testing via satellite or airborne sensing.

## KEY DIFFERENTIATOR:

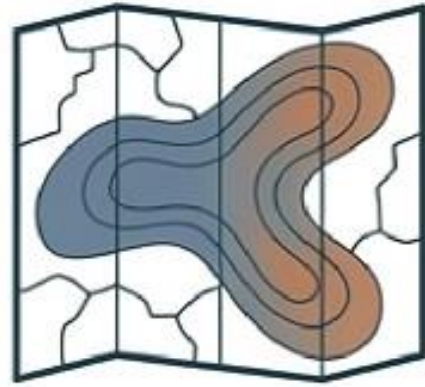
- Detects the specific material type (Oil, Gas, Water, Polymetals) rather than just rock anomalies.

## OPERATIONAL DEPTH:

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



# 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.

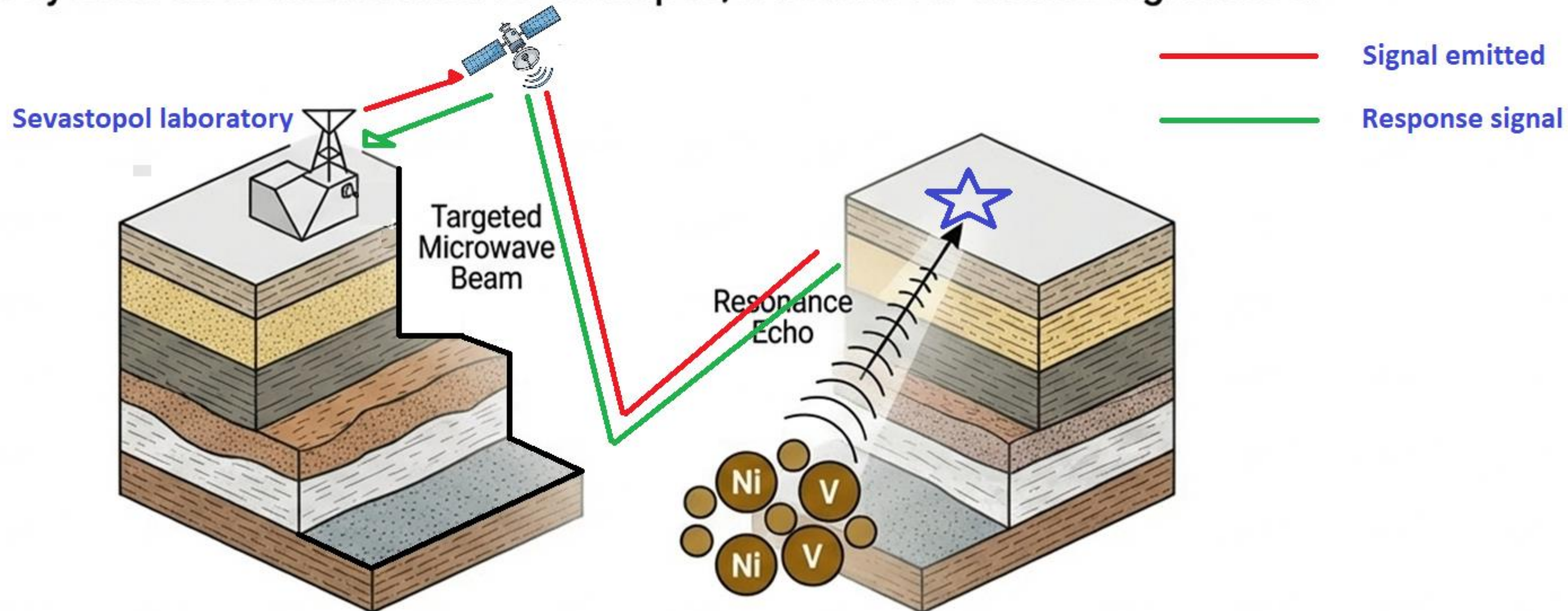
## STAGE 2: PRECISION DELINEATION

**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.

# The Physics of the Poisk Complex

The system does not look for rock shapes; it listens for atomic signatures.



## 1. GENERATE

A surface microwave generator fires a gigahertz-frequency signal modulated with the resonant spectra of specific reference elements.

## 2. TARGET

The signal penetrates up to **7.000m**, seeking reference atoms native to specific hydrocarbons (Nickel, Vanadium, Carbon, Sulfur).

## 3. RESONATE

When the wave hits the exact reference atoms, they achieve Nuclear Magnetic Resonance (NMR), creating a distinct electromagnetic echo.

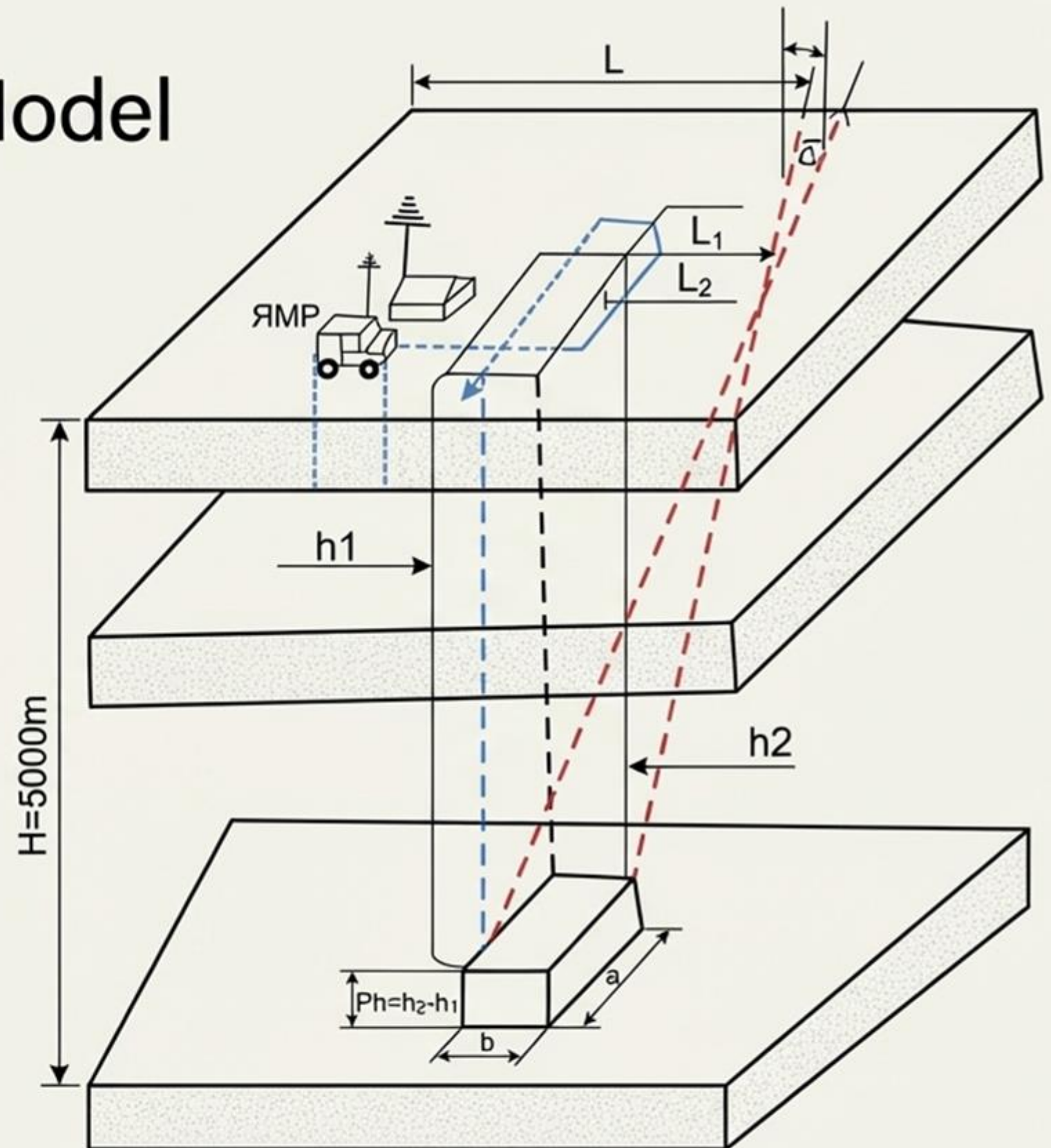
## 4. REGISTER

The highly sensitive surface receiver logs the amplitude of the returning signal, confirming the fluid type.

# The Trigonometric Depth Model

**Precision Geometry.** Depth is not guessed via signal degradation. It is mathematically calculated using the fixed angle of the directed microwave antenna ( $1^\circ$  or  $15^\circ$ ) and the precisely measured surface distance ( $L$ ) to the anomaly boundary.

This geometric calculation accurately maps hydrocarbon horizons and trap boundaries down to **7.000** meters.



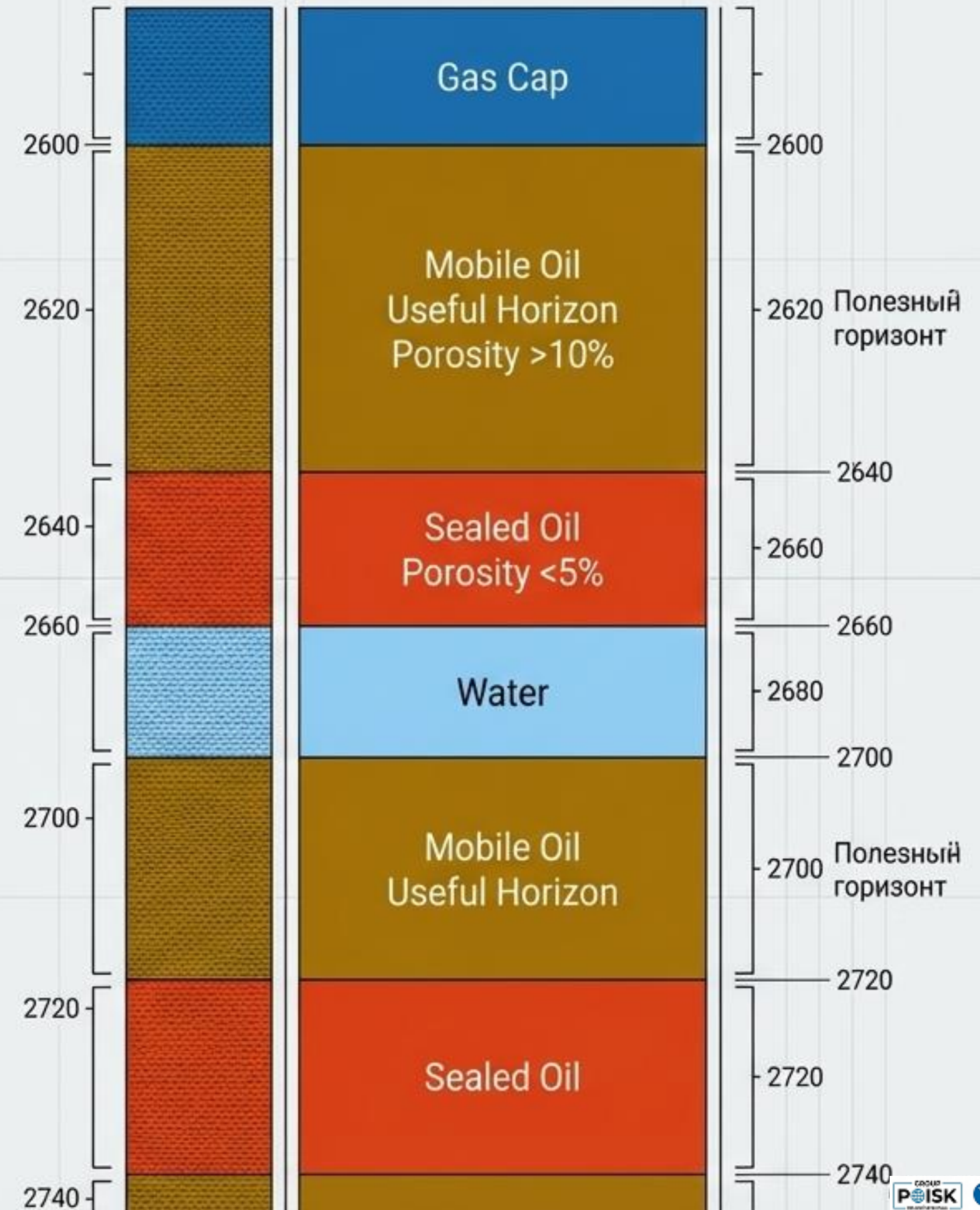
# Traditional Exploration vs. Resonance Targeting

	Traditional Geo-Exploration	The Poisk Complex
Primary Mechanism	Acoustic / Electromagnetic Reflection	<b>Microwave / NMR Resonance Spectroscopy</b>
Depth Penetration	Variable, resolution drops at depth	<b>Precise readings down to 7.000 meters</b>
Porosity Identification	Estimated post-drilling	<b>Directly measured pre-drilling (5% to 20%+)</b>
Fluid Type Recognition	Assumed	Exact identification via atomic reference signatures
Gas Pressure Mapping	Unknown pre-drilling	Direct measurement (up to 60+ MPa)
Success Rate (Anomaly to Yield)	40-60%	<b>95-97%</b>

# Beyond Saturation: Mapping the “Useful Horizon”

The Poisk complex manpisanancien 16:9.  
Total oil saturation is a deceptive metric.  
A massive reservoir is financially worthless if  
the porosity is too low for fluid extraction.

The Poisk complex differentiates between  
“sealed oil” (un-extractable) and “mobile oil”  
with high dynamic movement. Drill targets  
are exclusively limited to zones with >7-10%  
effective porosity.



# THE 2 STAGES DISCOVERY PROTOCOL



## Stage 1: Satellite DZZ (Macro Targeting)

Decrypting satellite imagery using radiation-chemical visualization to establish broad boundaries and identify anomaly types (oil, gas, or mixed).



## Stage 2: Precision Drilling & Validation

Final selection of drill points exclusively within high-porosity nodes, ensuring guaranteed industrial flow rates.

# Validation 1: The \$10 Million Warning

Location: Cooper Basin PEL-105, Australia

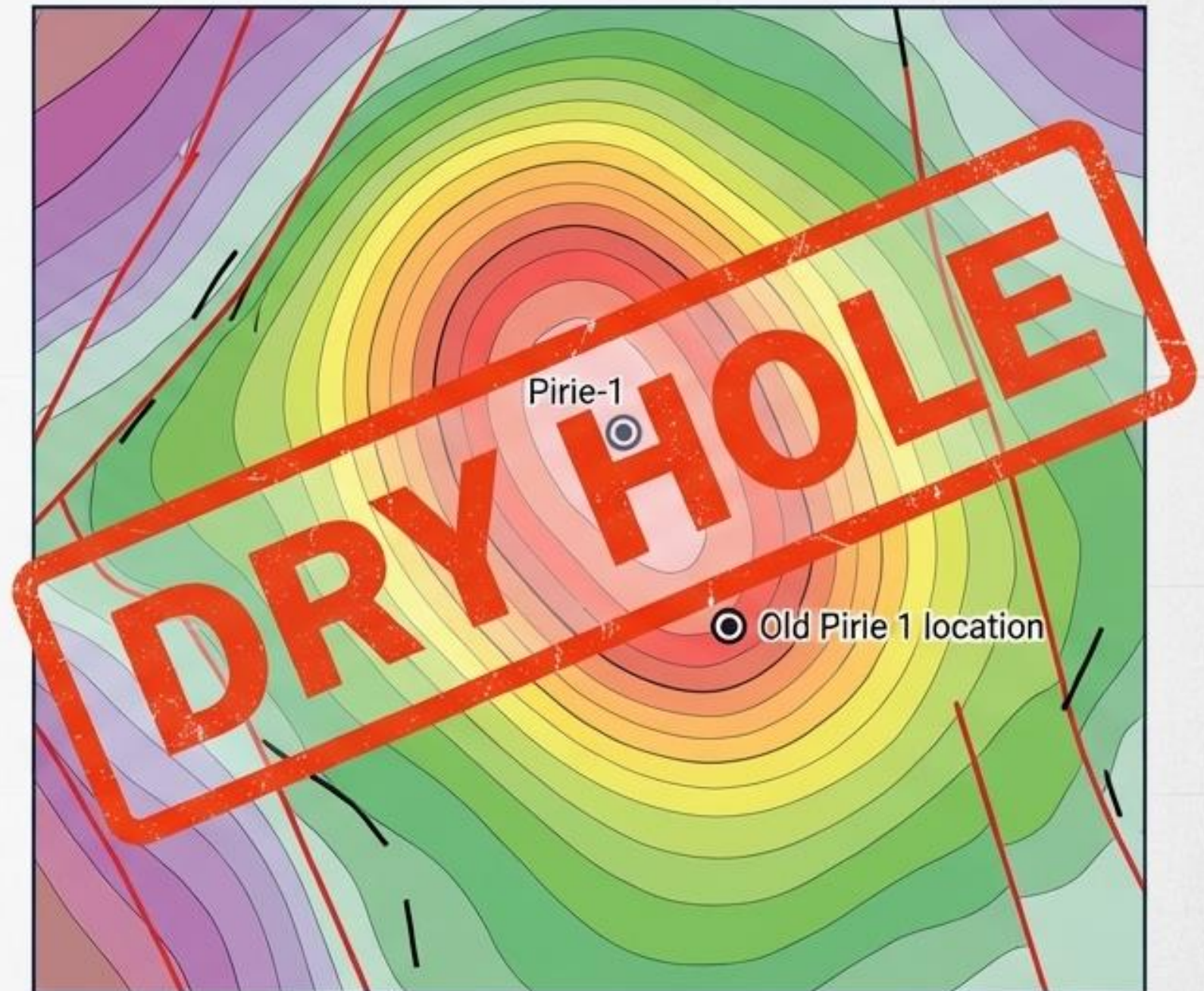
## The Story

Seismic data identified a massive structural trap. The client planned to drill the "Pirie-1" well. Prior to drilling, the Poisk complex was deployed and identified critically low rock porosity (5-7%) across all horizons.

## The Result

The client rejected the Poisk warning and drilled based on seismic data. Pirie-1 yielded no industrial flow. The well was abandoned, resulting in a **\$10,000,000 USD** loss.

**Poisk Diagnosis: Low Porosity (5-7%). Do Not Drill.**



# Validation 2: The Utah Arbitration Blind Test

Location: Utah, USA (Supervised by Independent State Arbiter)

## The Story

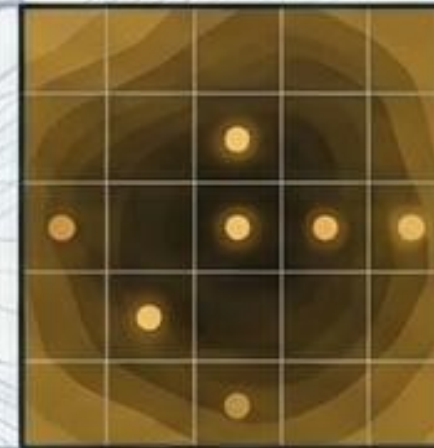
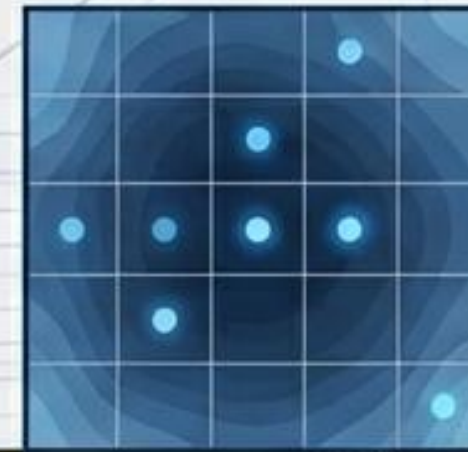
Five 25km<sup>2</sup> sectors were heavily surveyed for five years using traditional seismic, electrical, and magnetic methods. All five were declared "promising".

## The Test

Poisk evaluated the sectors in a blind test. It ruled out three areas entirely and pinpointed precise, high-porosity commercial oil zones in just two sectors.

## The Result

A 100% match. Drilling confirmed commercial oil exclusively in the two sectors Poisk identified, matching the exact porosity predictions.



# Validation 3: Solving the Seismic Illusion

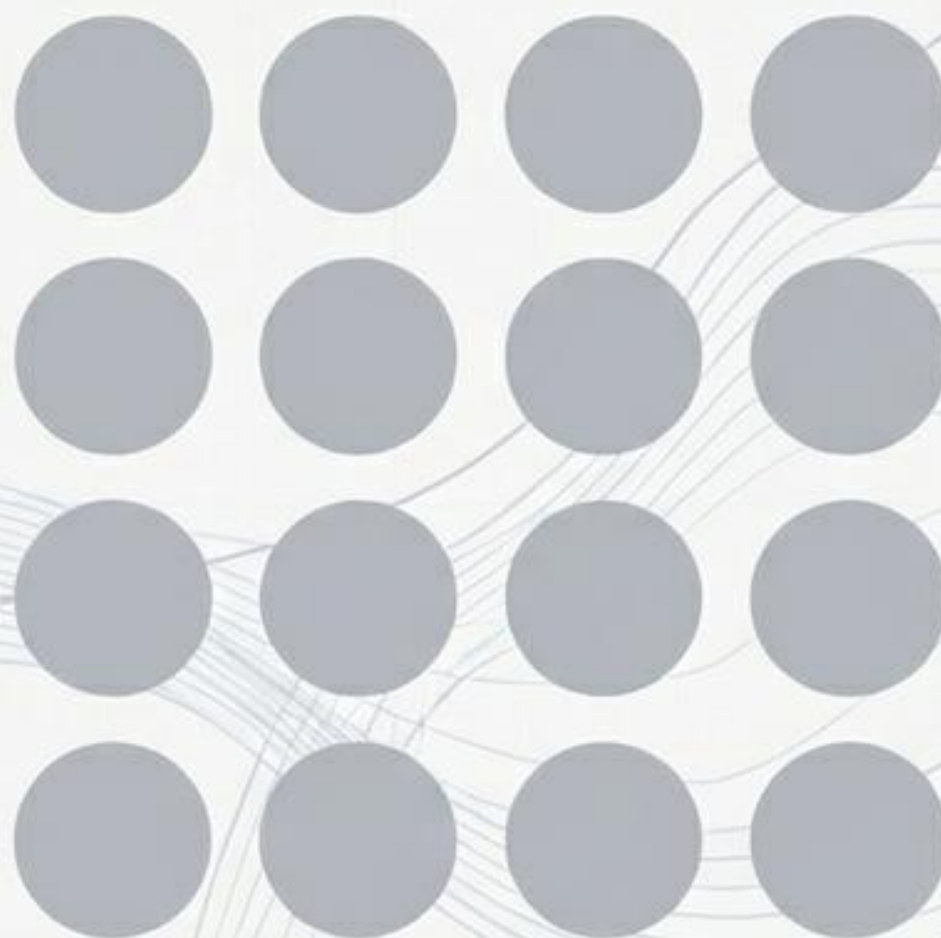
Location: Brantas Block, Indonesia (Land & Offshore)

## The Story

The geological structure was massive and highly visible to seismic mapping. However, the client drilled 16 consecutive empty wells because the hydrocarbon anomalies did not occupy the entire structure—only the narrow, highly porous nodes.

## The Result

Poisk mapped the specific zones where porosity exceeded 10-12%. Subsequent drilling in these exact locations yielded 3 highly successful wells (2 oil, 1 gas).



**Seismic Targets:**  
**16 Dry Holes**  
(Porosity too low)



**Poisk Targets:**  
**3 Producing Wells**  
(15-25% Porosity)

# Dynamic Tracking: Shale Gas Migration

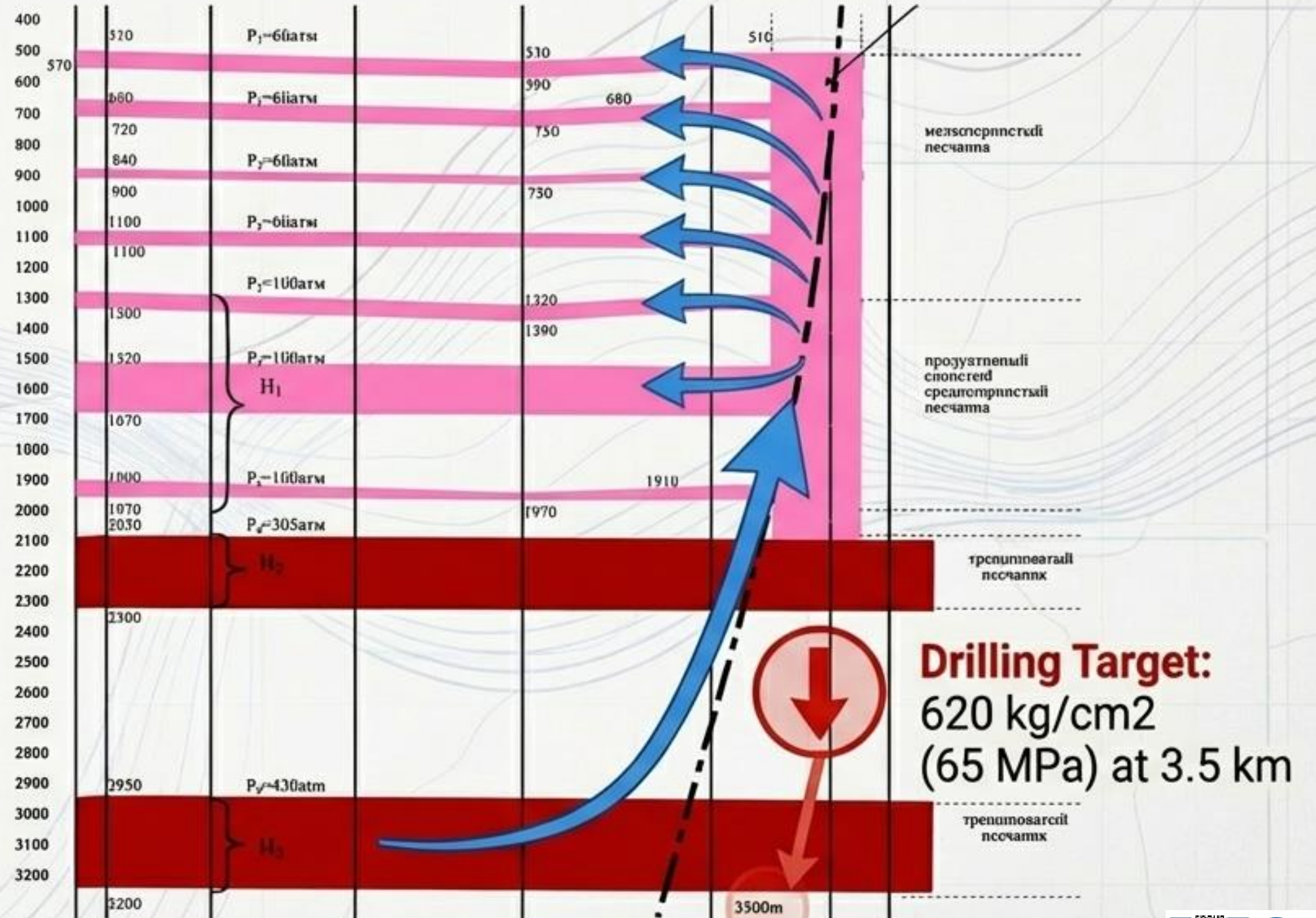
Location: Texas, USA (120km<sup>2</sup> Shale Sector)

## The Capability

Poisk doesn't just find static pools; it maps dynamic migration. By rotating the surface receiver 45 degrees across 6-point measurements, the system tracks the exact directional flow of formation fluids.

## The Result

The system tracked gas migration from a deep source to a specific shale fault zone. Drilling at the exact designated target revealed a **massive gas deposit under extreme pressure: 620 kg/cm<sup>2</sup> (65 MPa) at a depth of 3.5 km.**



# High-Stakes Adaptation: Preventing Mine Explosions

Location: Zasyadko & Zarechnaya Coal Mines

## The Danger

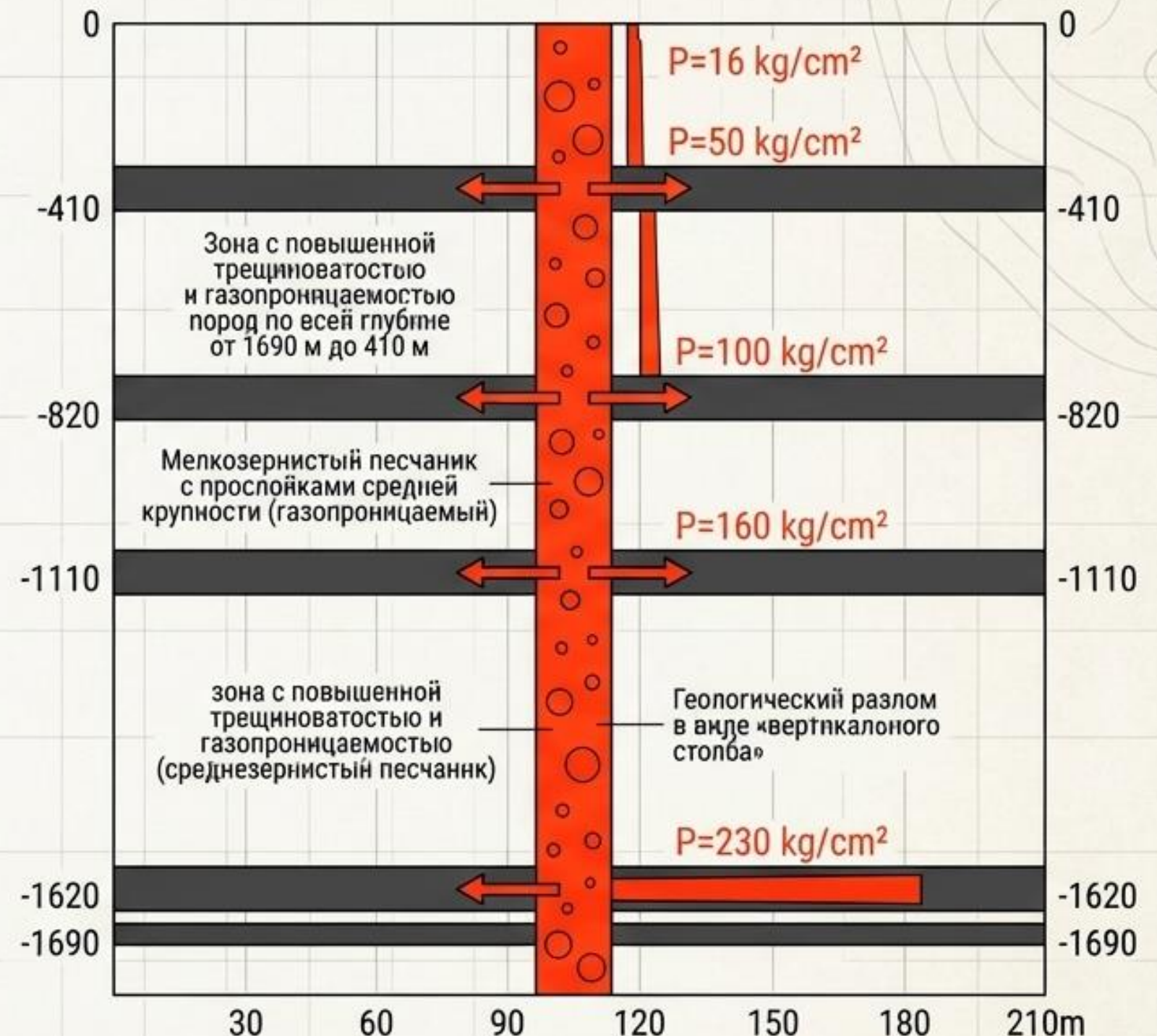
Unexplained volumetric methane explosions were killing miners. Traditional assumptions blamed shallow coal seam gas.

## The Discovery

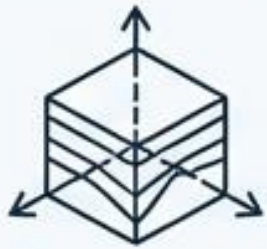
Poisk found massive, vertical “pillars” of highly porous sandstone acting as pressure channels. These piped hydrocarbon gas from deep deposits (1,690m down) directly into shallow coal seams at extreme pressures (up to 230 kg/cm<sup>2</sup>).

## The Solution

Precision drilling of targeted degassing wells directly into these vertical pillars neutralized the pressure across the entire mine grid.

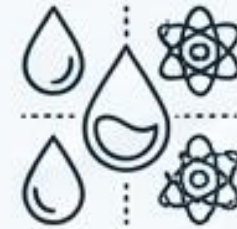


# The Poisk Complex: A Complete Subsurface Diagnostic



## Depth & Geometry

- Pinpoint accuracy down to 6,000 meters.
- 3D mapping of trap boundaries and horizon thickness.



## Fluid Identification

- Atomic-level NMR resonance.
- Differentiates oil, gas condensate, water, and sealed hydrocarbons.



## Precision Porosity

- The difference between a dry hole and a gusher.
- Direct measurement of effective rock porosity (5% to 20%+).



## Pressure & Migration

- Tracks dynamic fluid movement pathways.
- Direct measurement of internal gas pressure up to 60+ MPa.

# STRATEGIC BUSINESS IMPACT

## RISK MITIGATION



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

## PRE-DRILLING INTELLIGENCE

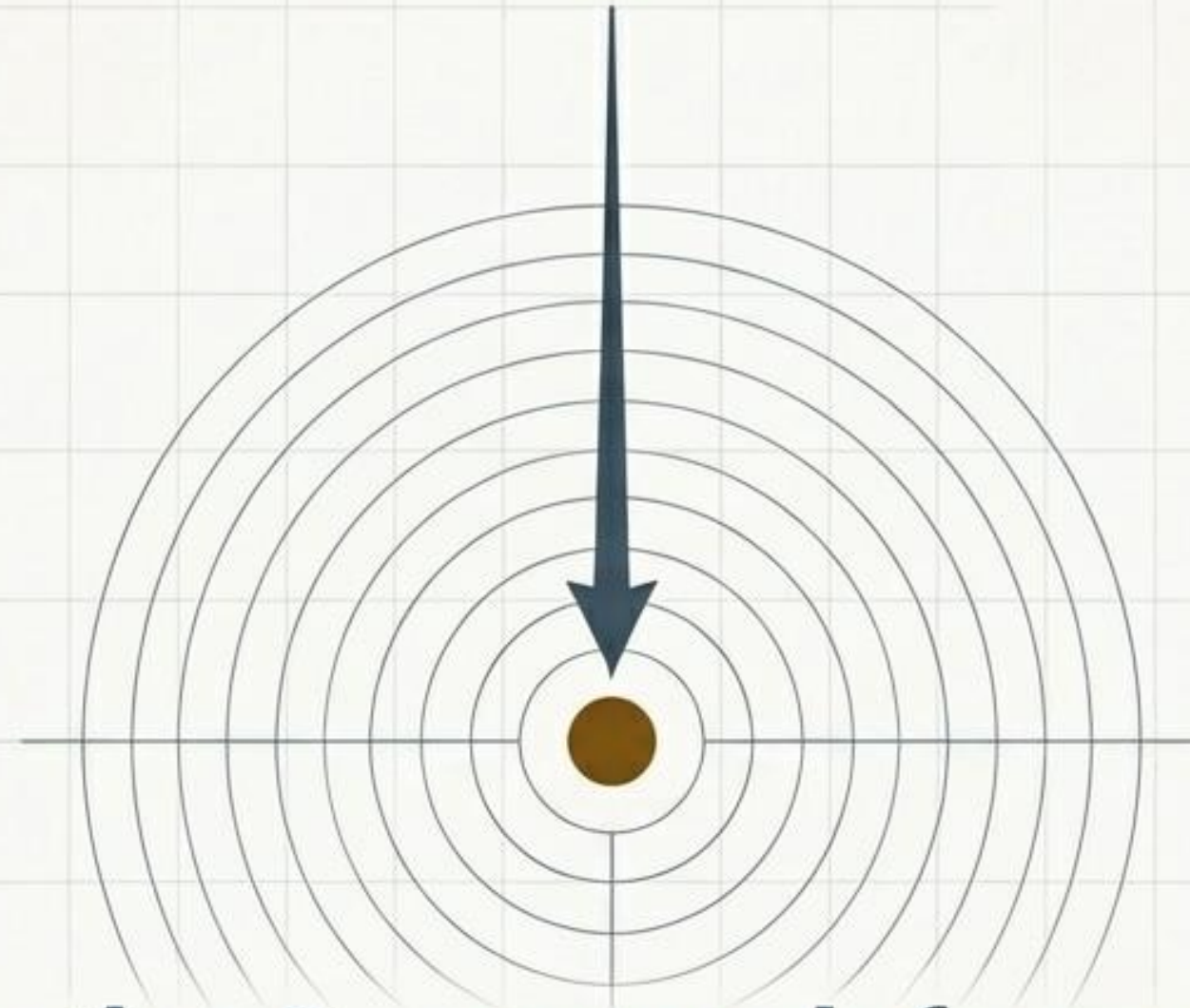


Identification of tectonic faults and exact drilling points before heavy machinery is deployed.

## RESOURCE ESTIMATION



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



# Eliminating the Guesswork from Exploration

By synthesizing traditional seismic data with electromagnetic resonance spectroscopy, the Poisk Complex transforms subsurface exploration from a game of structural probability into a science of precise atomic targeting.

**Reduce Dry Hole Risk | Verify Porosity Pre-Drilling | Maximize Extraction ROI.**

# 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.

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