

Petrovskoye Field Subsurface Diagnostics

Remote Geospace Survey Results &
Final Investment Recommendation

Target Area: Petrovskaya Well #2 (Radius 1.5km)
Survey Area: 2.25 sq km (Saratov Region)
Contract Code: Saratov-1 (1-10-20)

**We protect your
financial interests
if drilling
conditions are
hazardous; in this
specific case, do
not proceed.**

Executive Verdict: High-Risk, Non-Commercial



Recommendation: Suspend further seismic testing and drilling operations. The surveyed anomalies lack industrial significance.



Broken Structural Integrity:

Tectonic faults directly intersect both identified anomalies, destroying the necessary geological traps.



Sub-Commercial Volume:

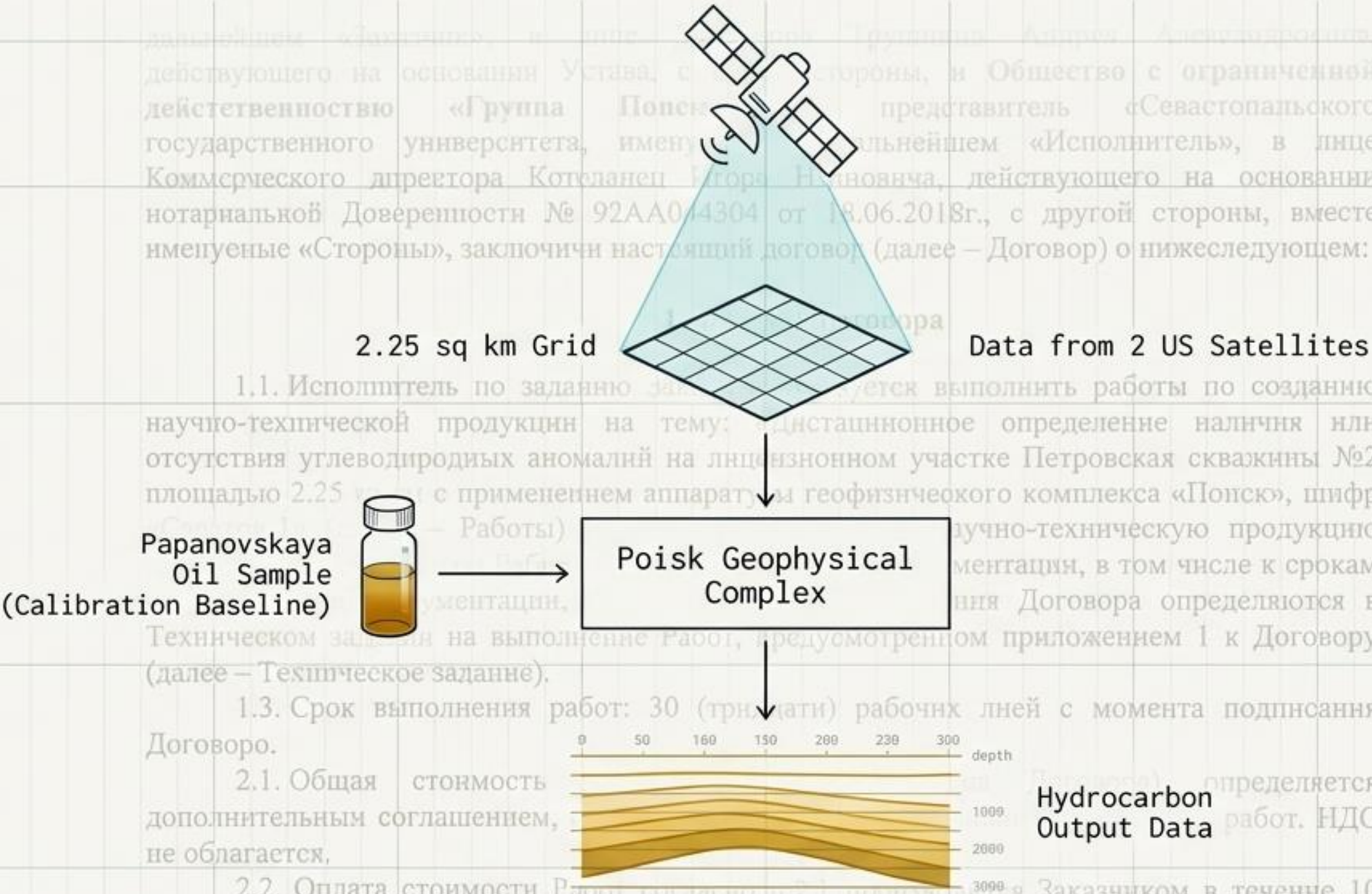
The estimated hydrocarbon pay thickness is an unviable ~1 meter.



Water Flooding Risk:

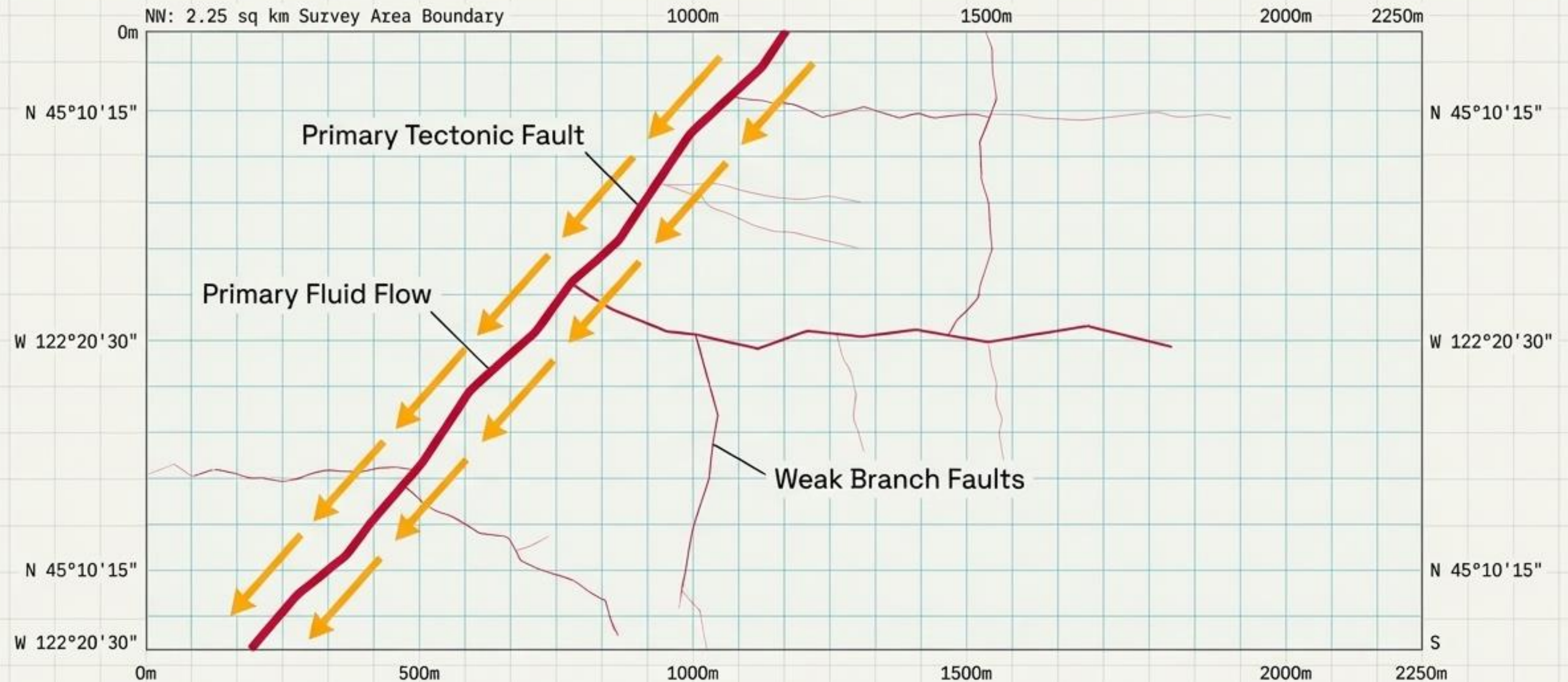
The presence of migrating fluid flows through the broken faults introduces an unacceptable risk of water breaching the reservoir.

Geospace Intelligence Methodology



Radius: 1.5km around Well #2
Reliability Factor: 68-70% confidence interval
Margin of Error: $\pm$ 50-60m depth tolerance

Macro Topography: Tectonic Faults & Fluid Migration



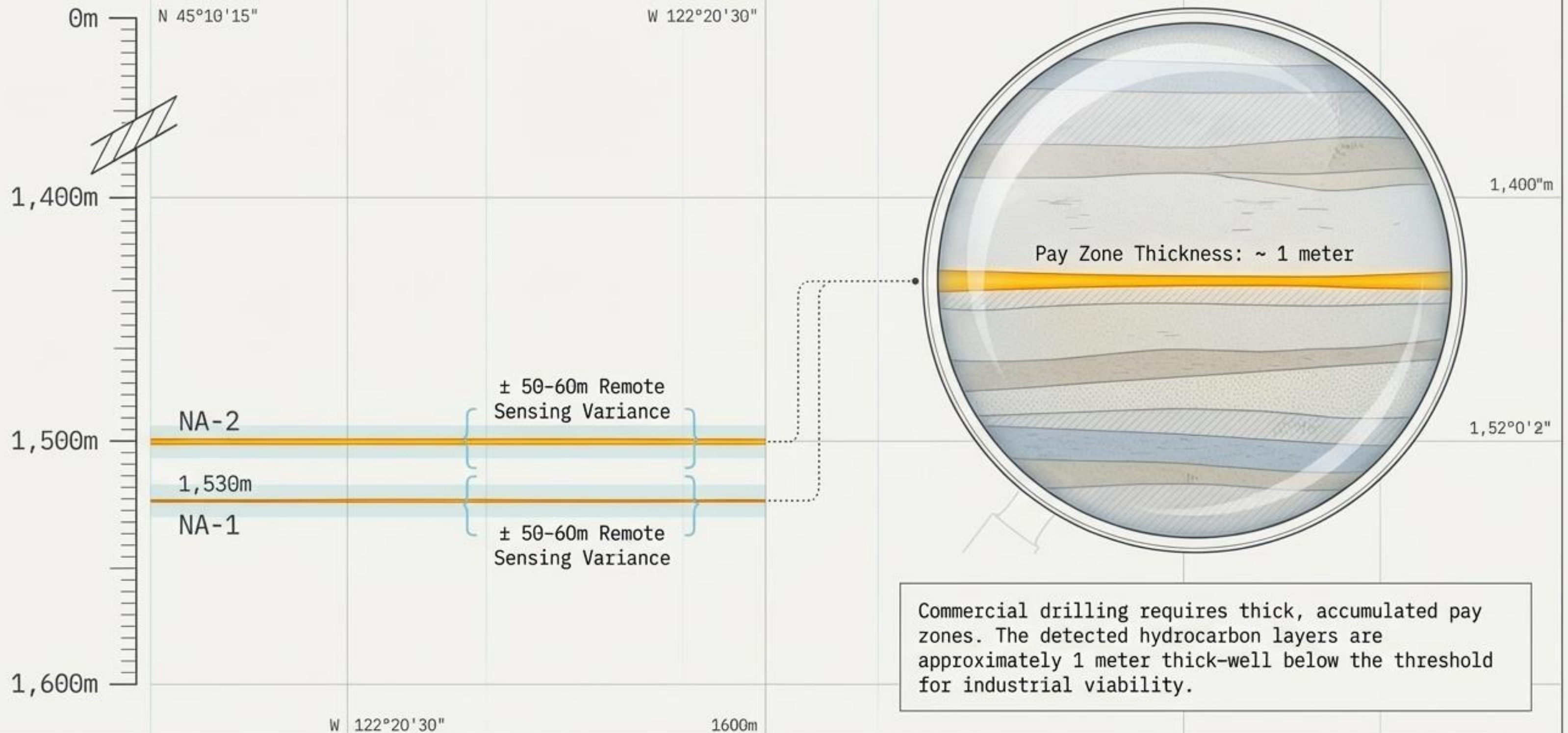
Key Insight: The primary fault dominates the region's subsurface mechanics. While the main fault itself is devoid of hydrocarbons, its weaker branches act as secondary migration pathways.

Hydrocarbon Anomaly Diagnostic Matrix

	Anomaly NA-1	Anomaly NA-2
Location	Northern Branch	Southern Branch
Estimated Area (S)	49,000 sq meters	120,000 sq meters
Depth to Reservoir (H)	1,530 – 1,540 m	1,500 – 1,510 m
Pay Thickness	~ 1 meter	~ 1 meter
Signal Intensity	Weak, matching fluid flows	Weak, matching fluid flows

Despite NA-2 offering more than double the spatial area, both anomalies exhibit an identical, fatal lack of pay thickness.

Subsurface Blueprint: The Unviable Pay Zone

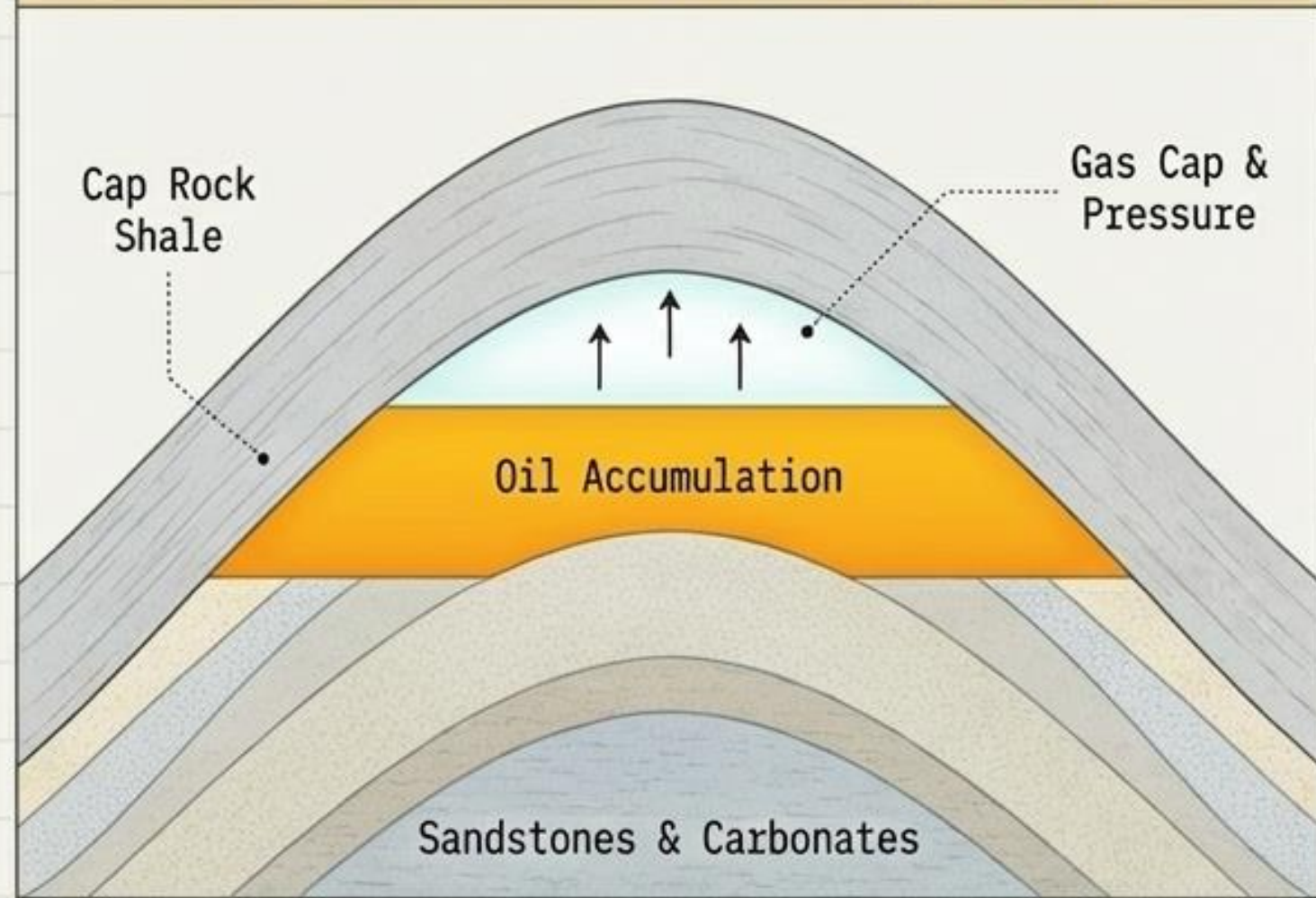


The Mechanics of a Compromised Reservoir

200°

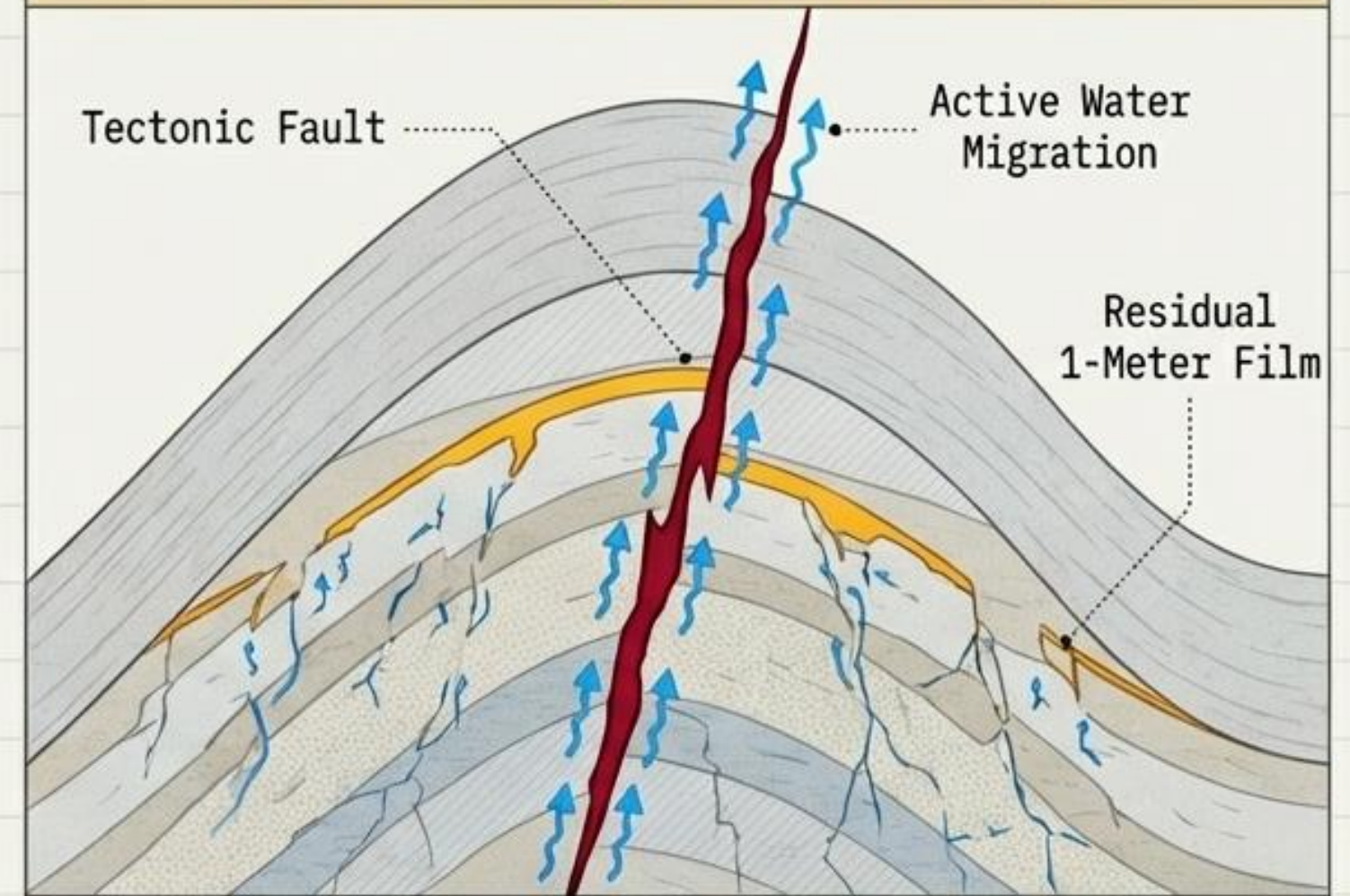
199°

The Ideal: A Healthy Trap



0m 45°10'15" W 122°20'30" 1600m

The Reality: Petrovskoye



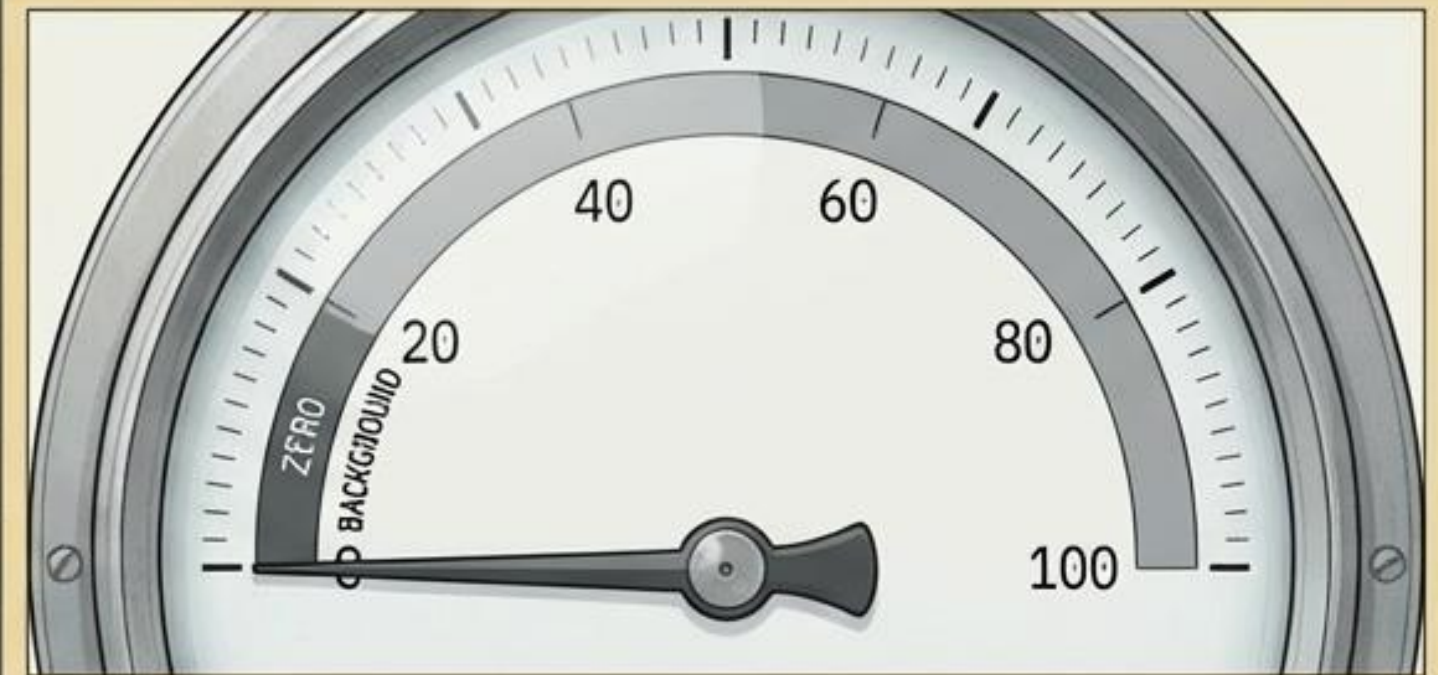
0m 45°10'15" W 122°20'30" 1600m

The tectonic faults mapped on the surface pierce directly through both NA-1 and NA-2. These faults shattered the geological traps, allowing historical hydrocarbons to escape and leaving the remaining 1-meter residual layer highly vulnerable to water flooding from active fluid streams.

Corroborating Evidence: The Pressure Deficit



Expected for Commercial Find: Elevated Methane Pressure



Actual Petrovskoye Readings: Background Levels Only

Zero industrial gas anomalies detected in the 2.25 sq km radius.

Only trace, background levels of Methane and CO2 mixtures present.

Detected 'oil' signals are identical in weak intensity to the non-commercial fluid streams.

The complete absence of elevated, excessive methane pressure confirms the structural traps are breached. The reservoir cannot maintain the pressure required for commercial extraction.

Final Risk Assessment & Closeout

Disqualifying Factors

-  Unviable Volume (1m thickness)
-  Broken Geological Structures (No traps)
-  High Water-Flooding Risk
-  Zero Industrial Gas Pressure

Proceeding with seismic validation or exploratory drilling carries extreme financial risk with a near-zero probability of securing commercial hydrocarbon flow rates. The 68–70% data reliability threshold is sufficient to definitively recommend project cessation.



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VERSATILITY OF APPLICATION



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