GROUP POISK
RSS-NMR SEVSU Poisk

СЕВАСТОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

Direct Hydrocarbon Exploration: The Poisk Complex

Innovative Remote Sensing & NMR Technology for Oil & Gas Anomaly Detection

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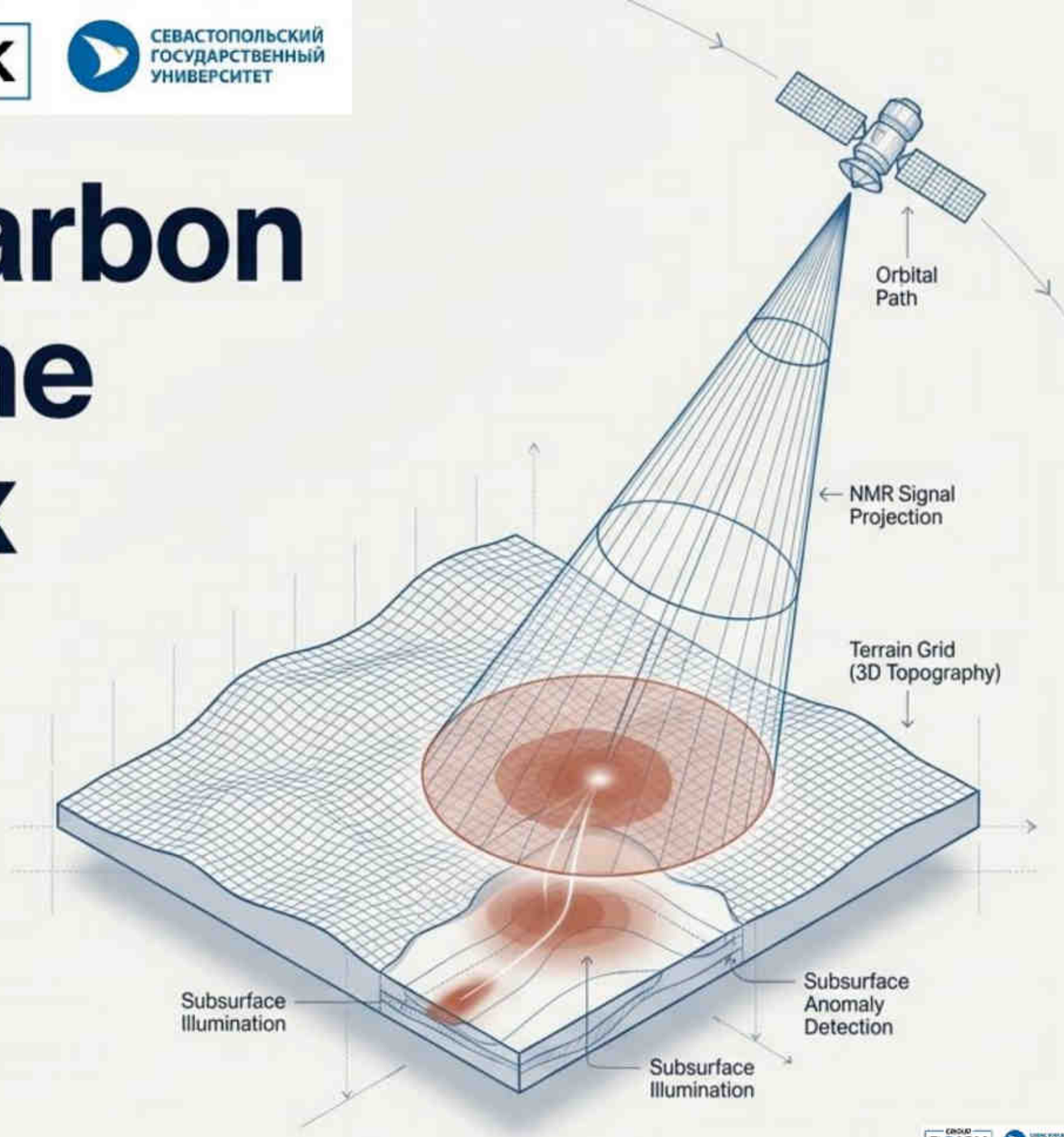
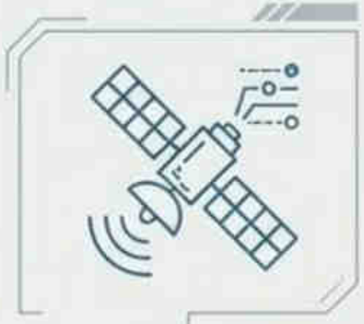
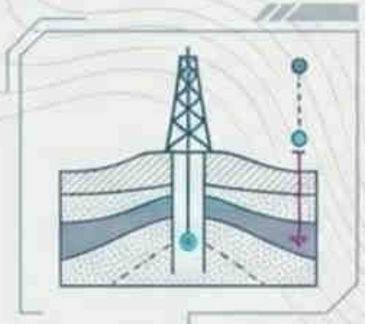
Executive Summary & Krasnodar Territory Test Case Results



OPERATIONAL ROADMAP & NEXT STEPS





Immediate (January)

Submission of the detailed Stage 1 technical report detailing proprietary execution.

Short-Term

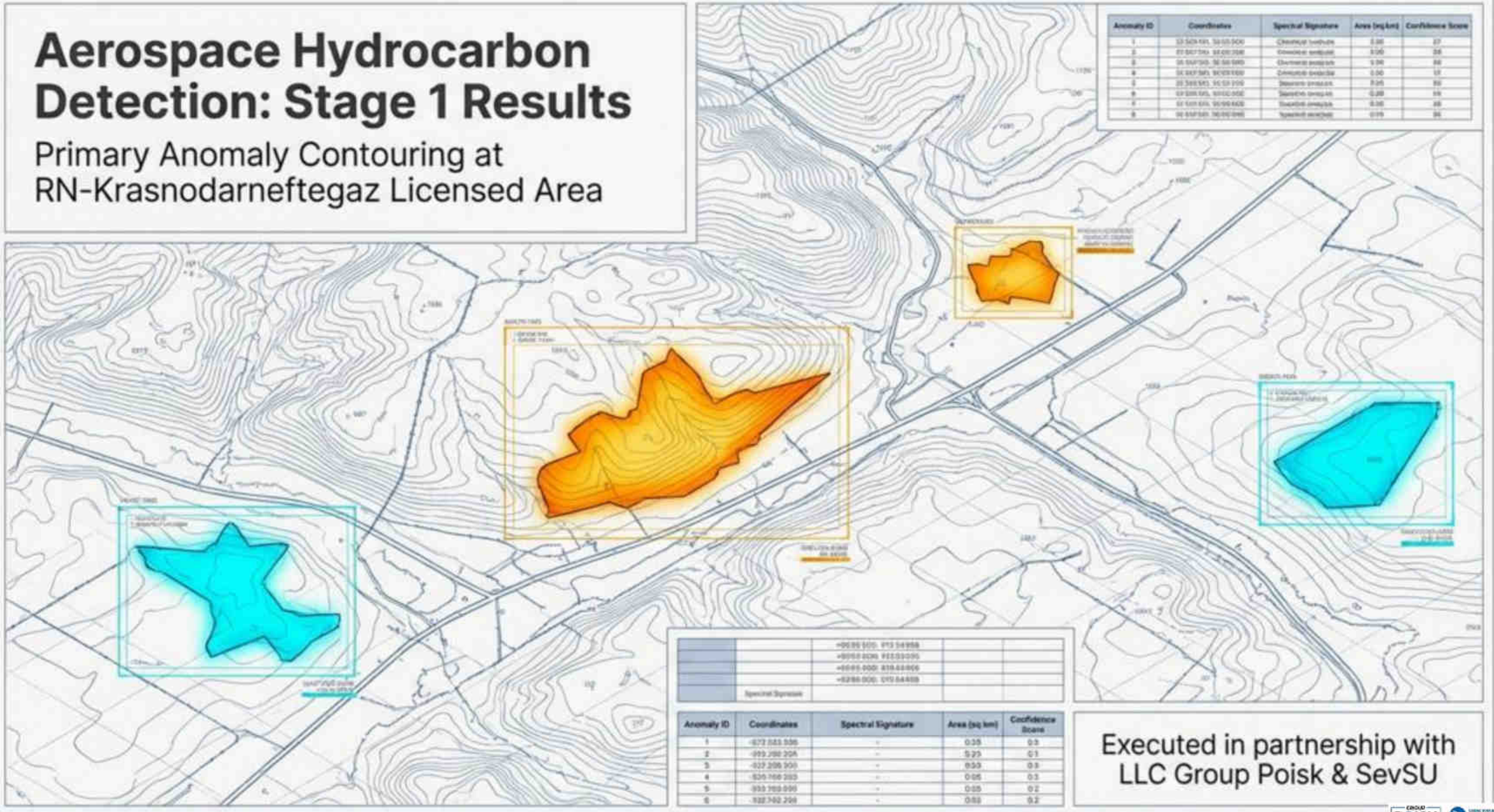
Acquisition and decoding of high-resolution space imagery to finalize anomaly types (Oil/Gas/Condensate).

Medium-Term

Deployment of ground crews for physical field work to secure exact measurement depths of the reservoirs.

Aerospace Hydrocarbon Detection: Stage 1 Results

Primary Anomaly Contouring at RN-Krasnodarneftegaz Licensed Area

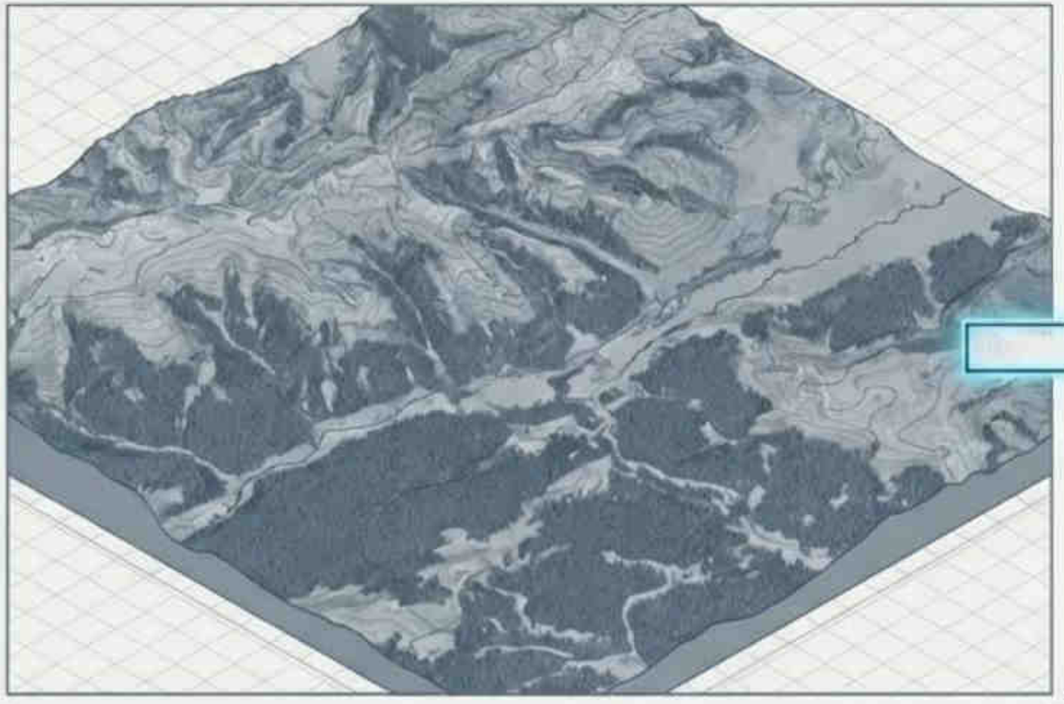


Anomaly ID	Coordinates	Spectral Signature	Area (sq km)	Confidence Score
1	-672.083.556	-	0.35	0.3
2	-993.280.204	-	5.23	0.1
3	-927.286.300	-	0.53	0.3
4	-826.166.283	-	0.06	0.3
5	-993.783.699	-	0.05	0.2
6	-932.762.298	-	0.53	0.2

Executed in partnership with LLC Group Poisk & SevSU

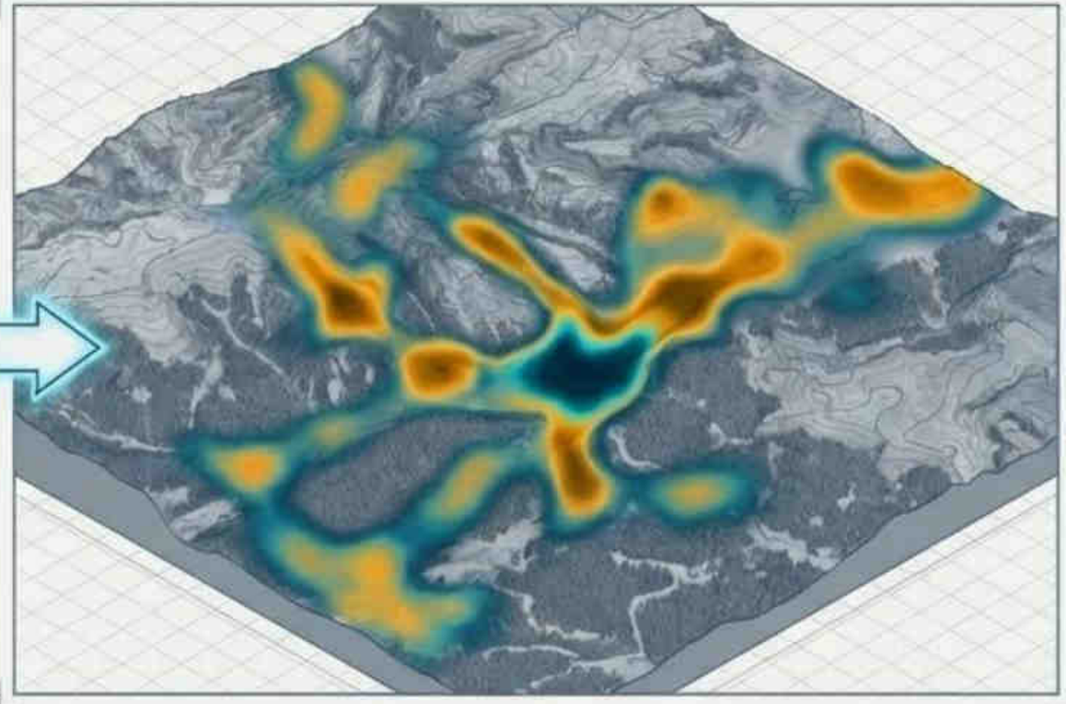
TARGETED CALIBRATION USING ACTIVE FIELD SAMPLES

Standard Optical Baseline



Relies purely on existing surface-level geological data. Cannot detect subsurface hydrocarbon presence directly from orbit.

Calibrated Luminescent Scan



Utilizes test sets precisely calibrated against physical oil samples provided by the Client from a nearby active oil field.

Takeaway: By matching the chemical signature of known local oil to the orbital scans, we isolate only the most relevant hydrocarbon anomalies.

EXECUTIVE SUMMARY & MISSION PARAMETERS

SURVEY AREA

~122 km²

Krasnodar Territory

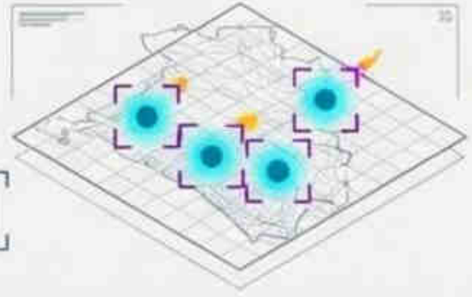
PRIMARY OBJECTIVE

- Detection and contouring of:
  - Oil
  - Natural Gas
  - Gas Condensate

CURRENT TRACTION

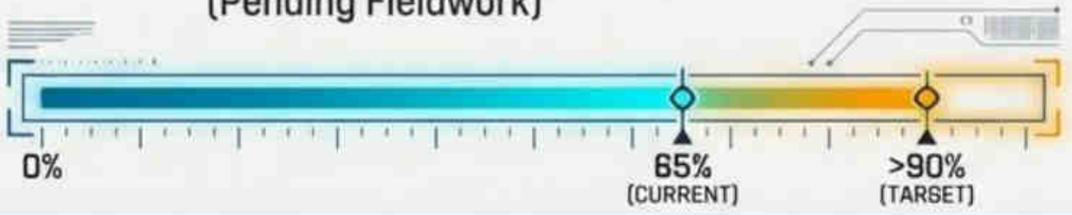
4 Primary Anomalies Identified

(HC-1, HC-2, HC-3, HC-4)

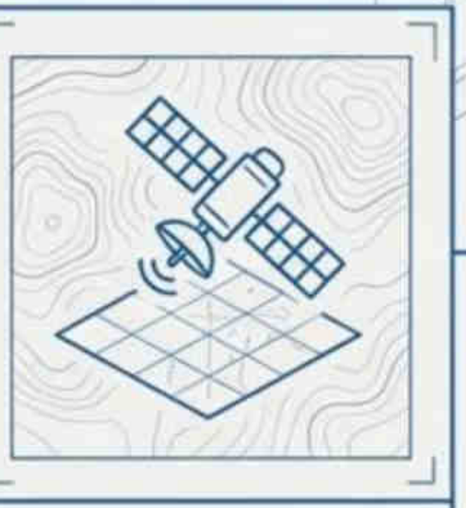


CONFIDENCE METRICS

- Current Reliability: 60-65%
  (Stage 1 Completed)
- Target Reliability: >90%
  (Pending Fieldwork)

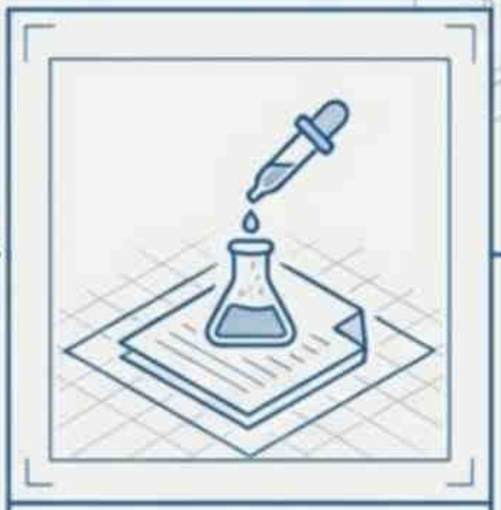


THE LUMINESCENT MAPPING METHODOLOGY



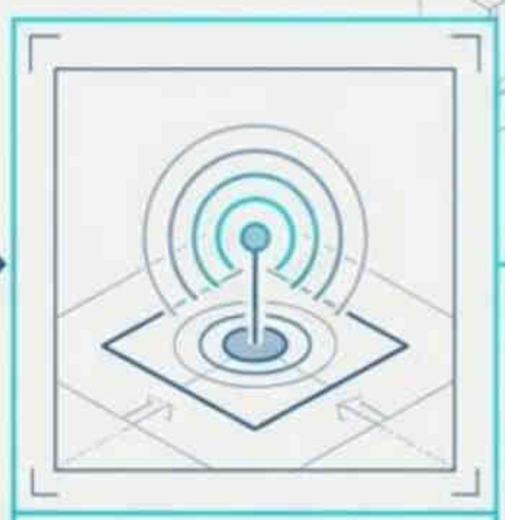
1. Aerospace Acquisition

Capture of 3 space images (6x6 km) and 12 analog images (3x3 km) covering the 122 km² area.



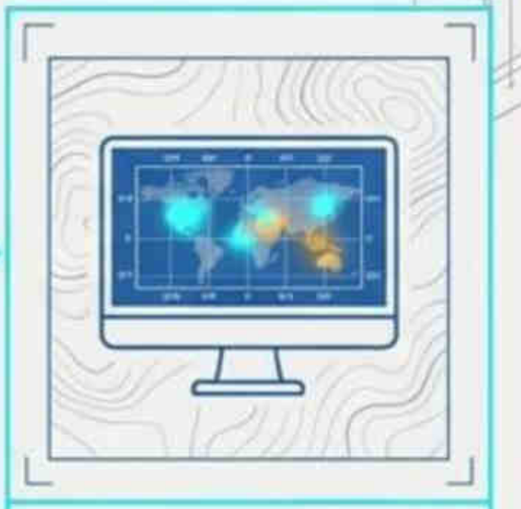
2. Proprietary Chemical Sensitization

Application of specialized gels infused with nanomaterials, phosphors, and sensitizers.



3. Radiation Exposure

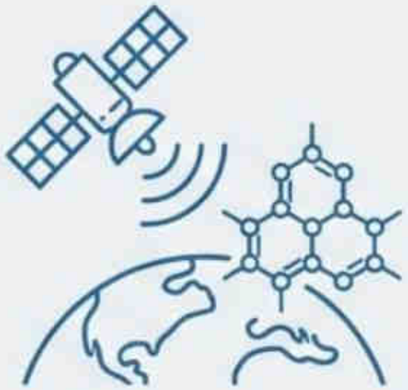
Regulated exposure to radiation fields until localized areas exhibit distinct increased brightness.



4. Digital Superimposition

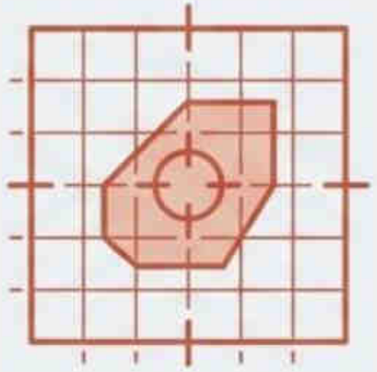
Camera integration maps the luminescent boundaries directly onto terrestrial coordinates.

Executive Summary



Hybrid Detection

Fusing Earth Remote Sensing with Nuclear Magnetic Resonance (NMR) to create a direct, targeted search method for hydrocarbon deposits up to 6,000m deep.



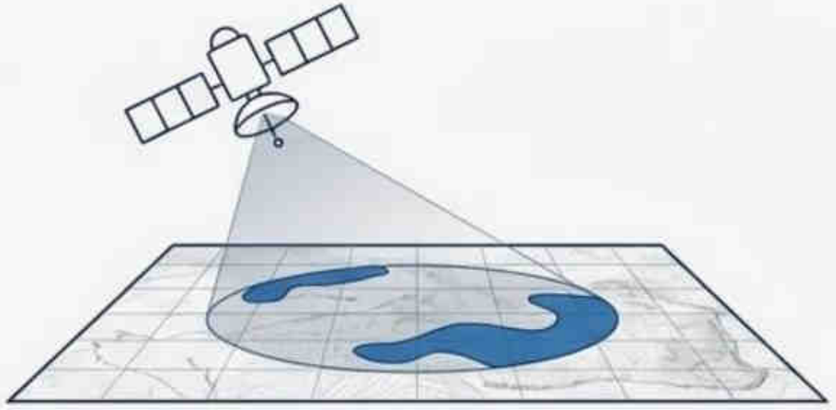
The Krasnodar Test

A comprehensive 124 km² evaluation conducted with RN Krasnodarneftegaz, successfully localizing 7 highly prospective hydrocarbon anomalies.

Guaranteed Precision

Delivering a 95%+ identification success rate, radically reducing the need for blind seismic physical exploration and cutting preliminary capital expenditures.

The Innovation Core: A Two-Phase Methodology

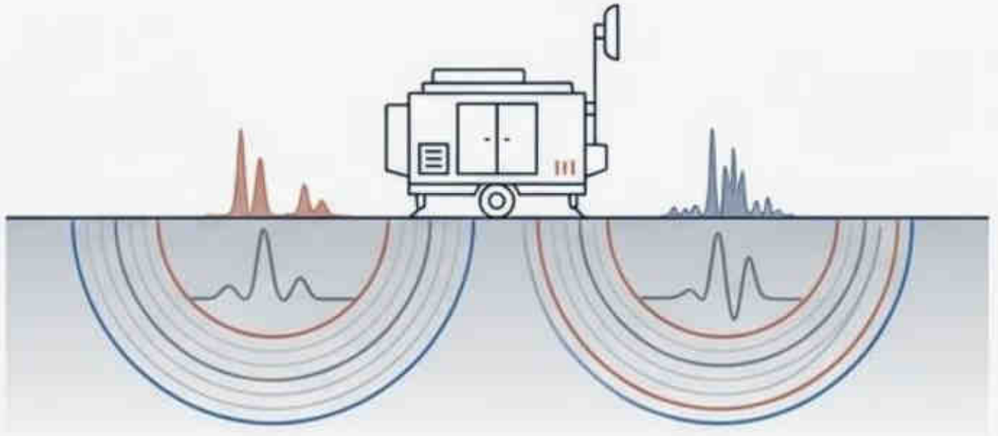


Phase 1 – Remote Visualization (Aerospace)

Photographic mapping is treated with specific nano-materials and exposed to radiation fields. This creates a distinct visual luminescence, revealing the broad outer contours of underground hydrocarbon, water, or ore anomalies.

Phase 2 – Resonance Identification (Ground)

The mobile Poisk complex deploys to the luminescent zones. It reads the specific NMR spectra of excited atoms (driven by Earth's magnetic field) to definitively identify the substance (oil vs. gas) and map exact highly-productive boundaries.



WORK DONE BEFORE 2018 WITH STAGE 2 ON GROUND NOW ALL IS DONE FROM SEVASTOPOL LAB RUSSIA

Technical Performance Scorecard

> 95%

Oil & Gas Identification
Success Rate
(Up to 6000m depth)

> 90%

Gas Condensate
Identification Success Rate

< 0.5%

Margin of Error in
Calculating Anomaly Area

± 1-3 m

Boundary Deviation using
Mobile Field Equipment
(± 8-15m with stationary setup)

The Poisk Workflow Arc

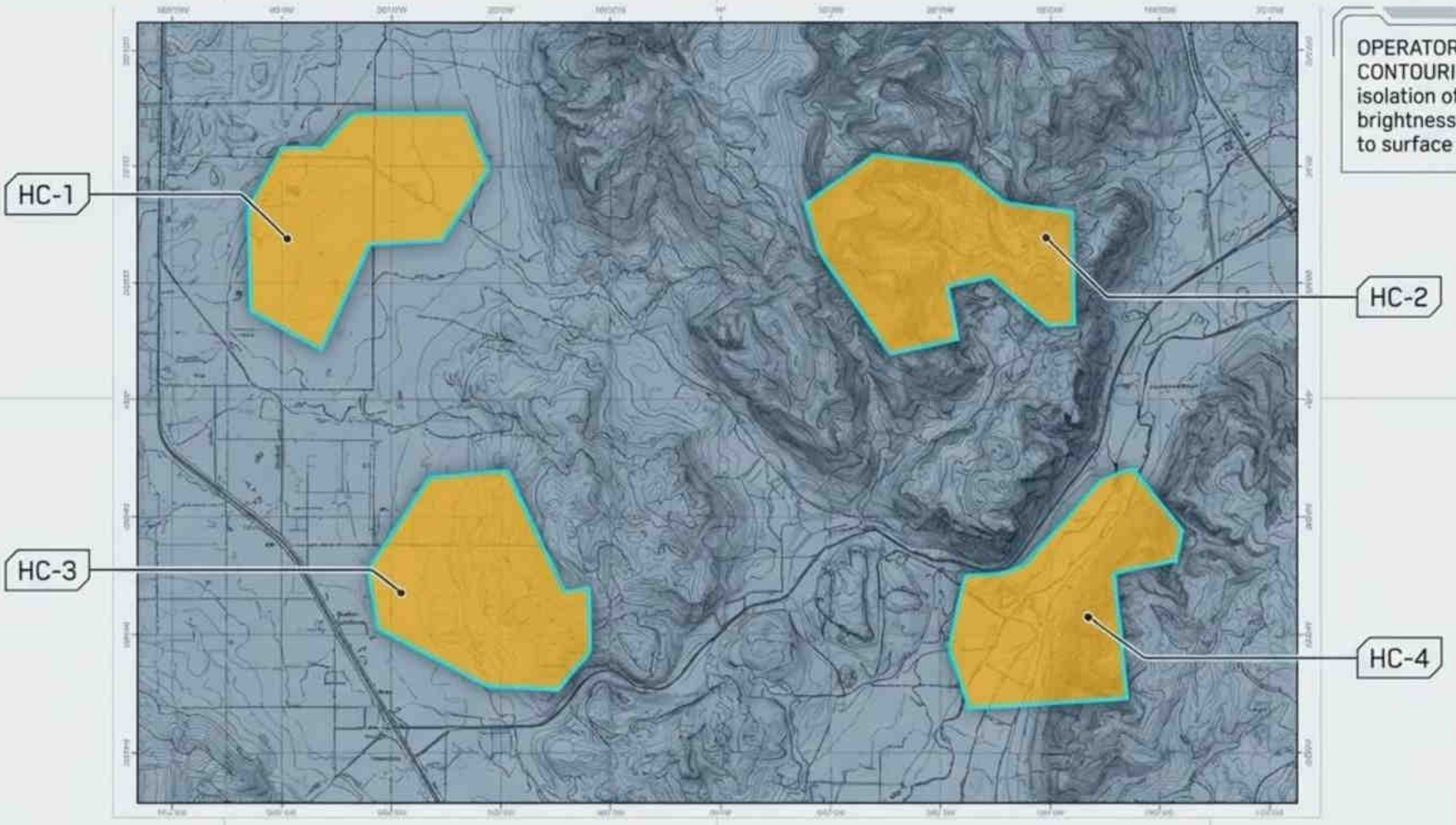
Aerospace scanning of the target region and initial decryption decrypo using proprietary remote sensing algorithms.

Chemical, radiation, and frequency processing of analog photographs to trigger anomaly luminescence.

Deploying electromagnetic and NMR sounding to map highly prospective areas and verify exact resource types.

Generating comprehensive extraction forecasts, depth measurements, and localized coordinates for immediate drilling.

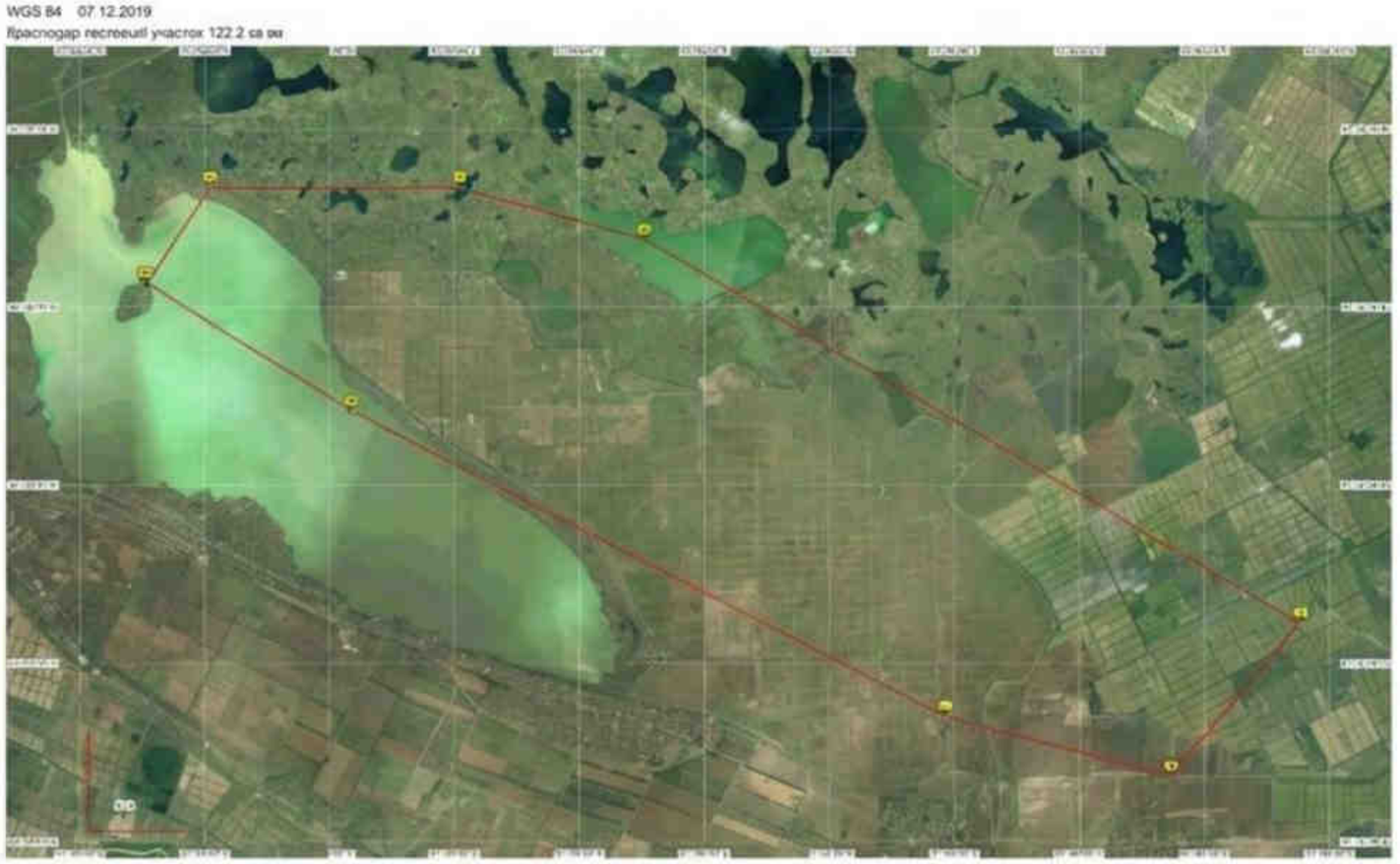
MAP-1: PRIMARY PROJECTION CONTOURS



OPERATOR-DEFINED CONTOURING: Manual isolation of four high-brightness zones translated to surface coordinates.

These surface projections represent the exact boundaries of subsurface hydrocarbon activity, mapped at current 60-65% reliability.

Test Case Introduction: Krasnodar Territory



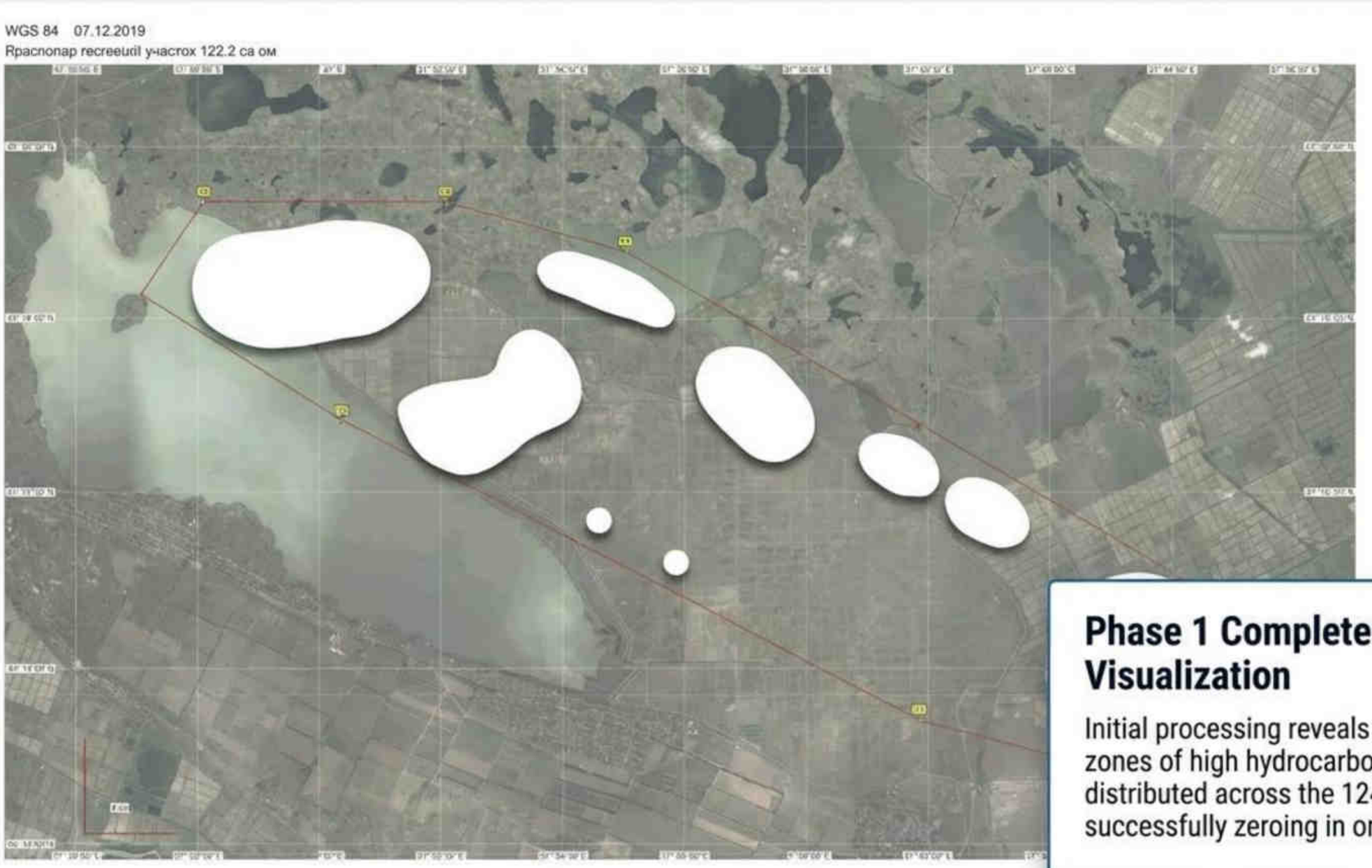
Hydrocarbon Anomaly Test Task

Partner/Client:
LLC 'RN Krasnodarneftegaz' (Rosneft)

Territory:
Slavyansky-Temryuksky District, Krasnodar

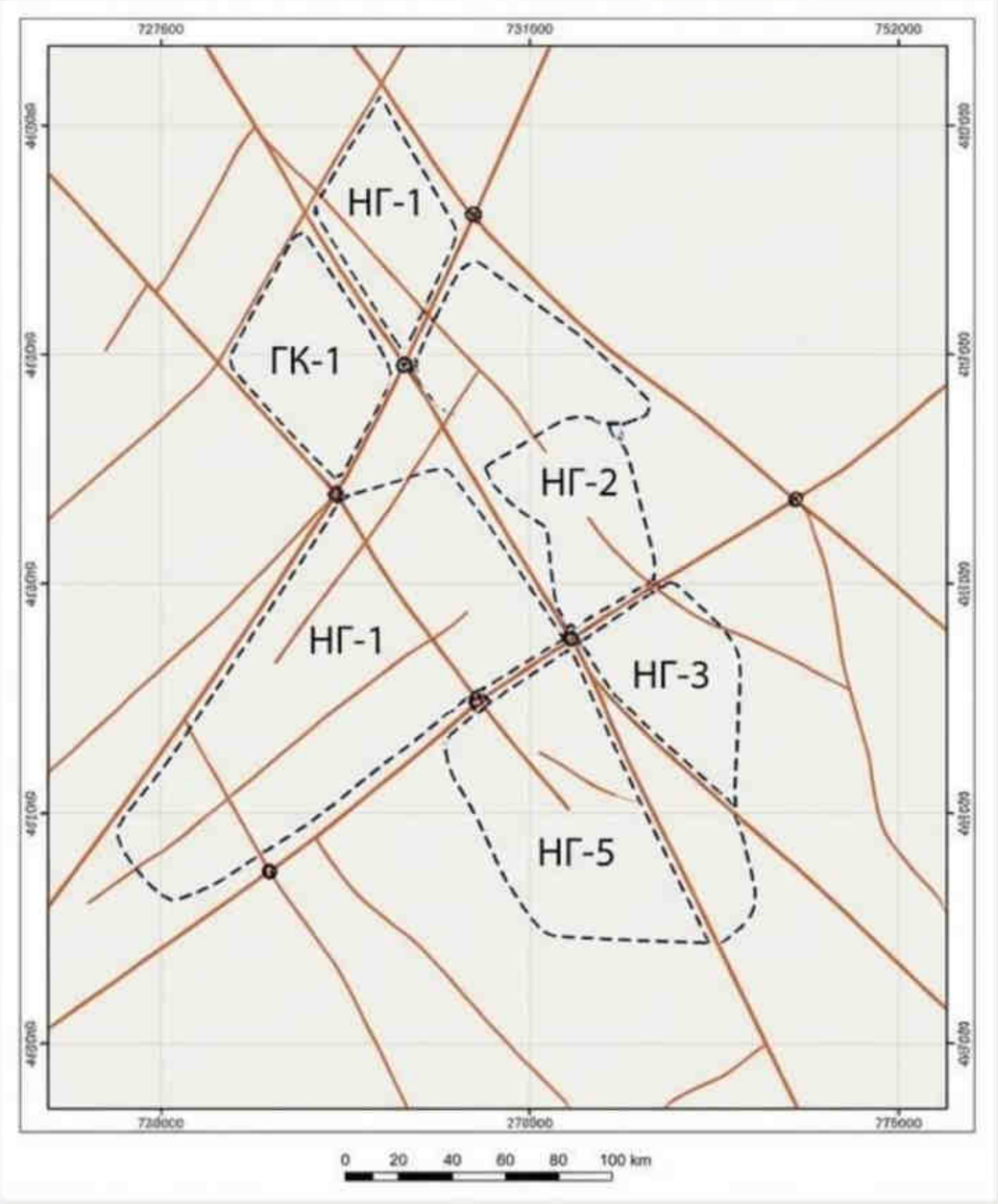
Total Area Surveyed:
124.2 km²

Objective:
Perform remote identification, map subsurface boundaries, and calculate predicted hydrocarbon volumes prior to any drilling.



Phase 1 Complete: Remote Visualization

Initial processing reveals massive, contiguous zones of high hydrocarbon potential distributed across the 124 km² test area, successfully zeroing in on search targets.



IDENTIFIED ANOMALIES

7 distinct, localized zones isolated.

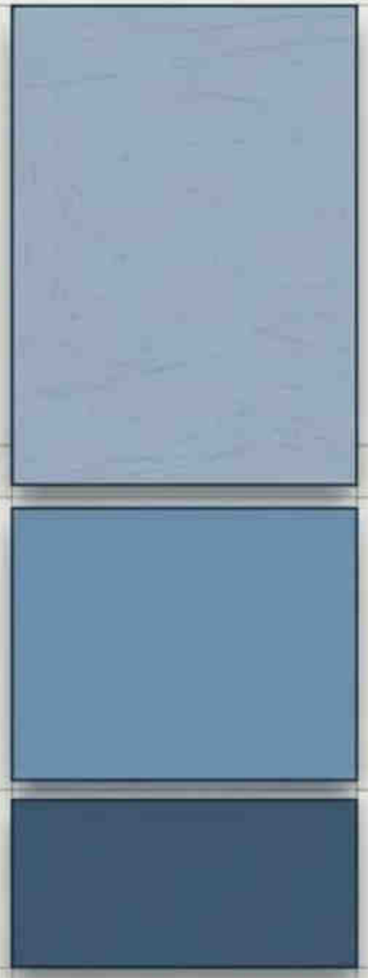
AREA RANGE

Ranging precisely from 1.2 km² to 8.7 km² per zone.

GEOLOGICAL VALIDATION

Anomaly boundaries show direct structural correlation with deep tectonic fault lines, confirming optimal conditions for hydrocarbon pooling.

Subsurface Architecture: Anomaly 2-1H Profile



Horizon I
1860 - 2010 m depth | 60 m average effective thickness

Horizon II
3050 - 3100 m depth | 30 m average effective thickness

Horizon III
3990 - 4010 m depth | 10 m average effective thickness |
Formational Pressure: 25 MPa

Exact drilling coordinates designated (7.30.16,5 S / 112.22.35,4 E) directly into the most productive trap.

Synthesis Matrix: Poisk vs. Traditional Exploration

	Traditional Method	The Poisk Method
Speed & Scope	Years of preliminary surveying; massive physical footprint.	**Start-to-finish results** achieved in **just 2 months** for a **124 km²** area.
Accuracy & Risk	High geological risk; 'blind' drilling reliance; high dry-hole ratios.	**Direct pre-localization** delivers **80-95% guaranteed identification** of **hydrocarbons** before rigs are deployed.
Capital Expenditure	Exorbitant costs associated with mandatory, sweeping seismic operations.	**Drastically reduces the physical volume of required seismic work** by **pre-defining the exact anomaly boundaries.**

Predictive Resource Yield Dashboard

Anomaly №2-1H (Area: 36.3 km²)

Extractable Oil: **~4.82 Million Tons**

Extractable Gas: **~146.2 Million m³**

Anomaly №2-2H (Area: 71.3 km²)

Extractable Oil: **~8.55 Million Tons**

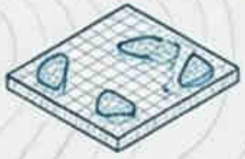
Extractable Gas: **~266.2 Million m³**

The Poisk complex successfully calculated gas pressure, reservoir thickness, and recoverable reserves with high precision entirely without physical drilling.

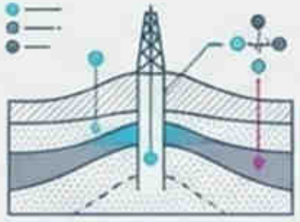
BRIDGING THE RELIABILITY GAP TO >90%

CURRENT STATE (60-65%)

Primary detection and surface contouring completed via analog/space image treatment. Targets isolated.



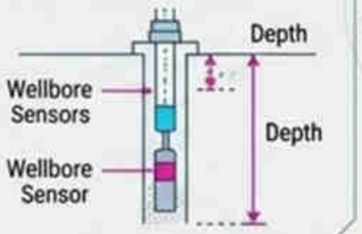
60%



PHASE 2 CATALYST (AREA & TYPE)

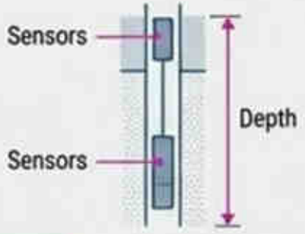
Decoding detailed high-resolution space images against prepared local oil tests to refine exact square footage and pinpoint types.

90%



PHASE 3 CATALYST (DEPTH)

On-the-ground field operations at HC-1 to HC-4 measurement points to determine exact reservoir depths.



FINAL STATE (>90%)

Drill-ready confidence. Full 3D understanding of area, depth, and composition.

ASSET DIAGNOSTIC MATRIX

Asset ID	Surface Contours	Candidate Hydrocarbon Types	Immediate Action Required
HC-1	Detected & Mapped	Oil, Natural Gas, Oil-Gas, or Gas-Condensate (Pending Detailed Decoding)	High-Resolution Space Image Decoding
HC-2	Detected & Mapped	Oil, Natural Gas, Oil-Gas, or Gas-Condensate (Pending Detailed Decoding)	High-Resolution Space Image Decoding
HC-3	Detected & Mapped	Oil, Natural Gas, Oil-Gas, or Gas-Condensate (Pending Detailed Decoding)	High-Resolution Space Image Decoding
HC-4	Detected & Mapped	Oil, Natural Gas, Oil-Gas, or Gas-Condensate (Pending Detailed Decoding)	High-Resolution Space Image Decoding

The Bottom Line: Business Value

Time to Oil

Radically accelerates the preparation of new territories. Bypasses months of preliminary sweeping, bringing promising areas to the drilling phase faster.

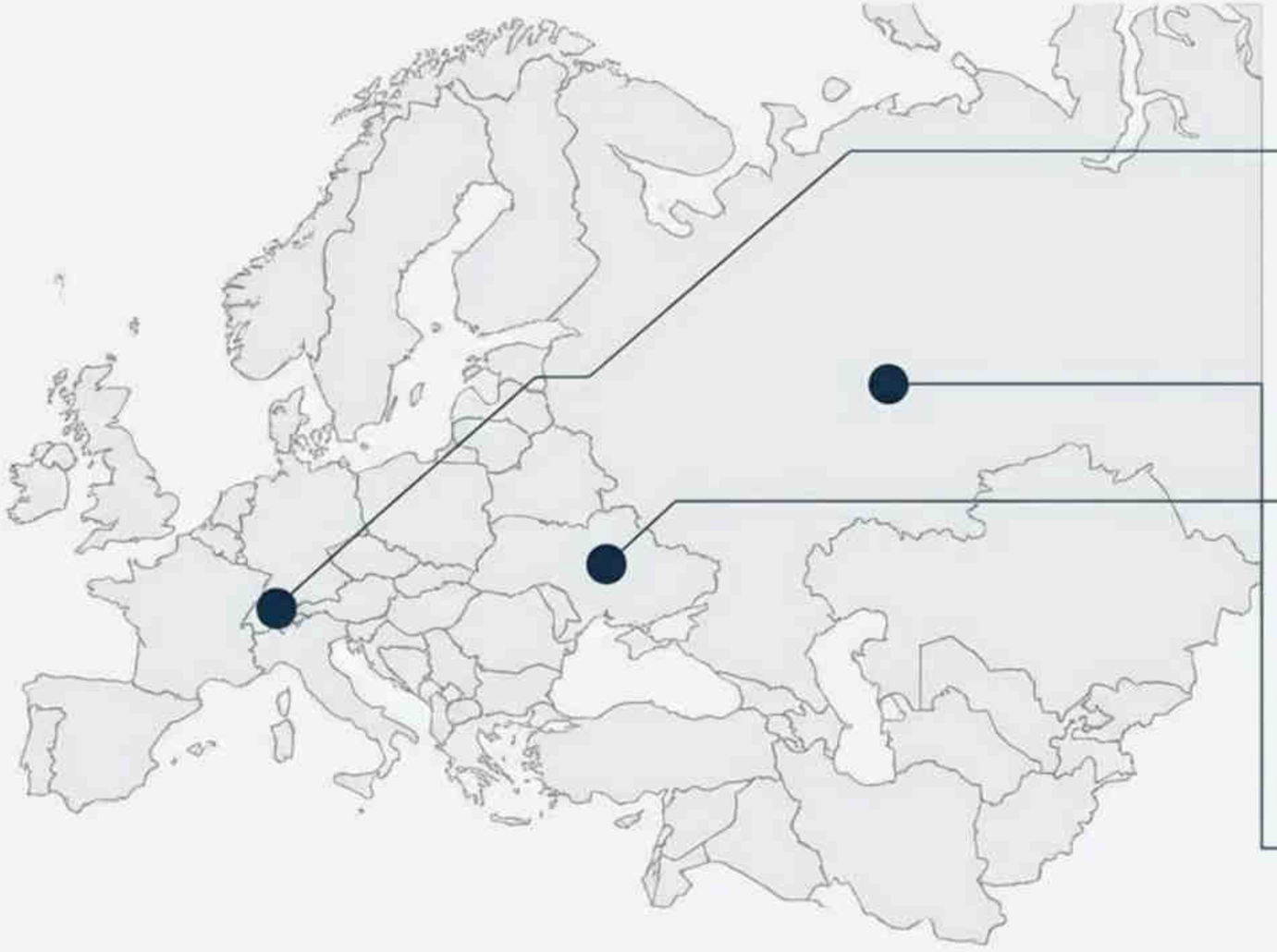
Capital Efficiency

Massive reduction in financial outlays. By pre-localizing targets, companies only deploy expensive detailed seismic crews to highly confirmed, hyper-targeted areas.

De-Risked Drilling

Pushes overall drilling success rates above 90% within identified anomaly boundaries, virtually eliminating the geological risk of blind exploratory wells.

Global Intellectual Property Protection



Switzerland (International)

European Patent No. 2007 A 000 247

International protection for Methods of searching for natural resources.

Ukraine

5+ Proprietary Patents

Covering specific methods for identifying oil, natural gas, and mapping via information-analog surface photography.

Russia

Patent RF No. 227-2305

Protected methodologies for direct mineral exploration.

Made in Russia

Voluntary certification system «Made in Russia»
Registered in the Unified Register of registered voluntary certification systems

CERTIFICATE OF CONFORMITY
СЕРТИФИКАТ СООТВЕТСТВИЯ

Valid from 20.10.2025 to 05.10.2028

Applicant/Manufacturer: Poisk Group LLC, 299040, Russia, Sevastopol

Заявитель/Изготовитель: ООО "ГРУППА ПОИСК", 299040, Россия, г. Севастополь

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

Comply with the voluntary certification system "Made in Russia" requirements.

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

Vice President — A.V. Solodov

А.В. Солодов

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРИБОР-ЭКСПЕРТ»

СЕРТИФИКАТ СООТВЕТСТВИЯ

ПЭ

№ 0057630

ОРГАН ПО СЕРТИФИКАЦИИ

ПРОДУКЦИЯ

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

ИЗГОТОВИТЕЛЬ

СЕРТИФИКАТ ВЫДАН

НА ОСНОВАНИИ

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

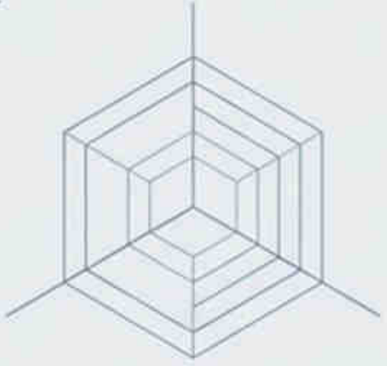
Руководитель органа

Эксперт

VALIDATION AND INSTITUTIONAL AUTHORIZATION

Stage 1 Primary Exploration results validated and authorized for progression.
Detailed technical methodology report to follow.

Signatory: I.I. Kotelyanets — Representative of SevSU,
Commercial Director of LLC Group Poisk.



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.

Customized version

1. For translation costs, please contact us.
2. For the addition of company-specific documentation, please contact us.
3. For an editable option, please contact us.
4. Consultations available at **Michel.friedman@fands-llc.com** or **mlf10357@yahoo.com** .

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- Michel L. Friedman-Matarese (Destom LH 67/11)
- Mobile +591-71696657
- WhatsApp +591 71696657
- Email 1 michel@geo-nmr.net
- Speaker: FR-UK-ES-BR/PT
- GMT - 04h
- Base Bolivia Santa Cruz
- In Charge Africa & Américas
-

- Igor Kostelanetz (Director of LLC "Poisk Group")
- Tel +78692456491
- Mobile +79787155212
- WhatsApp +79787155212
- Email 1 igor@geo-nmr.net
- Speaker: RU-UK
- GMT + 03h
- Base: Sevastopol Rusia
- In Charge: World