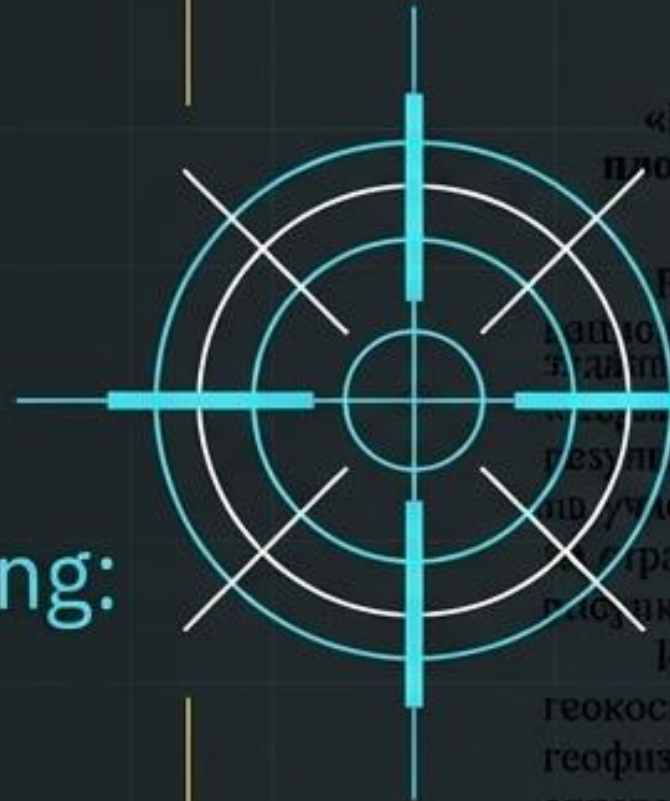


Project Novonikolaevka: Hydrocarbon Discovery & Delineation

Executive Technical Briefing:
Stage I & II Resonance
Exploration Findings

Work developed before 2018 using the 2 stages system
Stage one lab stage 2 ground verification
Now re emplaced by 100% lab work



12.01.2015-03/2-9

ООО «Группа Понск»
Представитель Севастопольского
Национального Университета
Ядерной Энергии и Промышленности
Ковалеву Николаю Ильичу

Заключение

на выполненную работу по теме:

«Понск и оконтуривание углеводородных аномалий на участке площадью около 32 км² (п. Новониколаевка, Крым) с применением аппаратуры геокосмических и дистанционных технологий»

Работы выполнялись в ноябре-декабре 2014 года Севастопольским филиалом университета ядерной энергии и промышленности по заказу ГУП РК «Черноморнефтегаз». По окончании работ в ГУП РК «Черноморнефтегаз» исполнители предоставили отчет в котором приведены результаты поисково-оценочных работ по поиску углеводородных аномалий на участке Поворотного газоконденсатного месторождения. Отчет содержит страницы текстового материала, 5 приложений (снимки, карты, таблицы и рисунки).

Исследования выполнены с применением дистанционных геокосмических технологий (ДЗЗ), аппаратуры дистанционного геофизического комплекса, аппаратуры электромагнитного резонанса, аппаратуры сверхвысокочастотных возбуждения углеводородов.

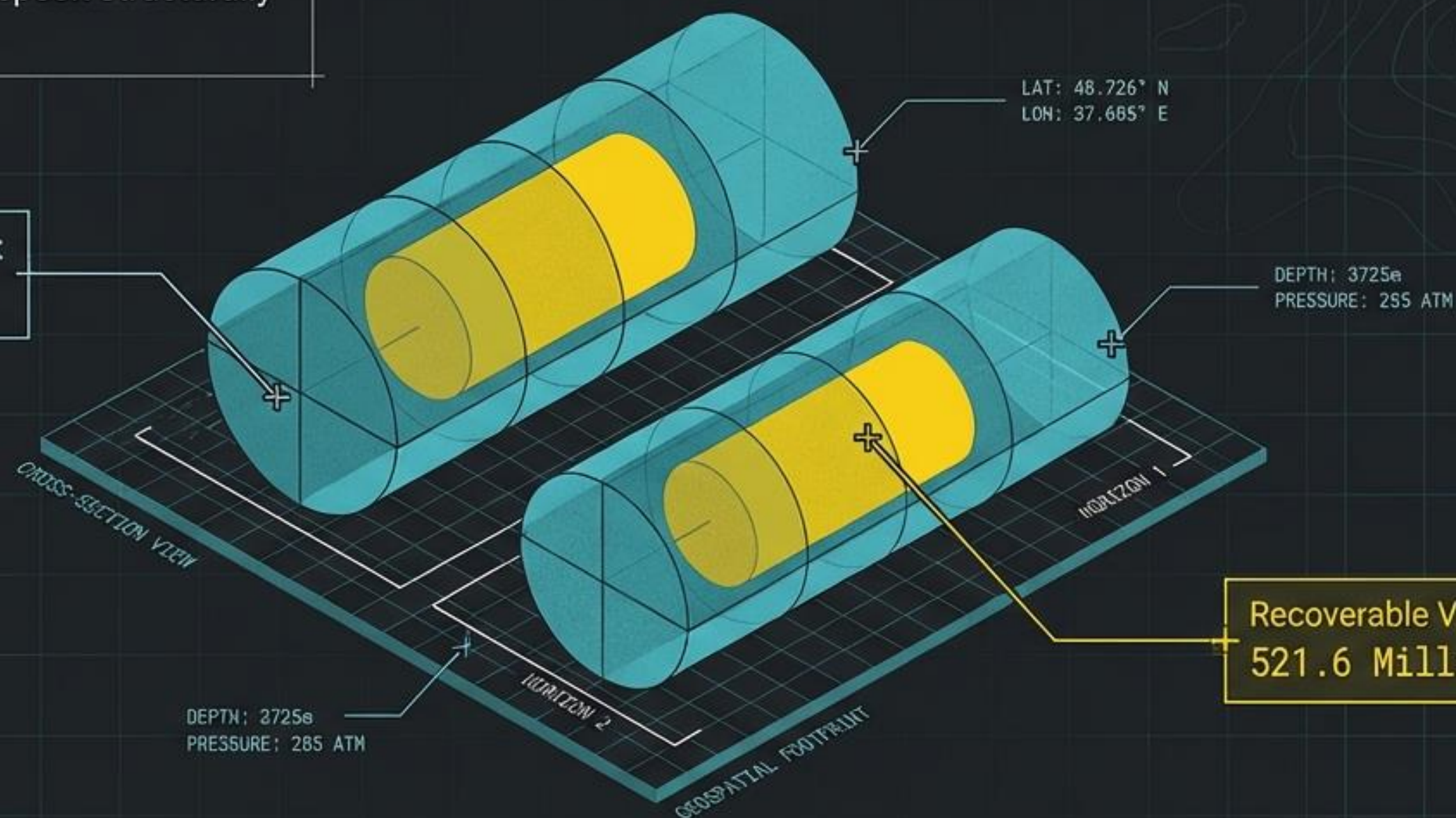
В результате геокосмических исследований оконтурена газовая залежь района райот.

Prepared for:
Chernomorneftegaz

Conducted by:
**Sevastopol National University
of Nuclear Energy and Industry**

Verified Commercial Reserves in Novonikolaevka

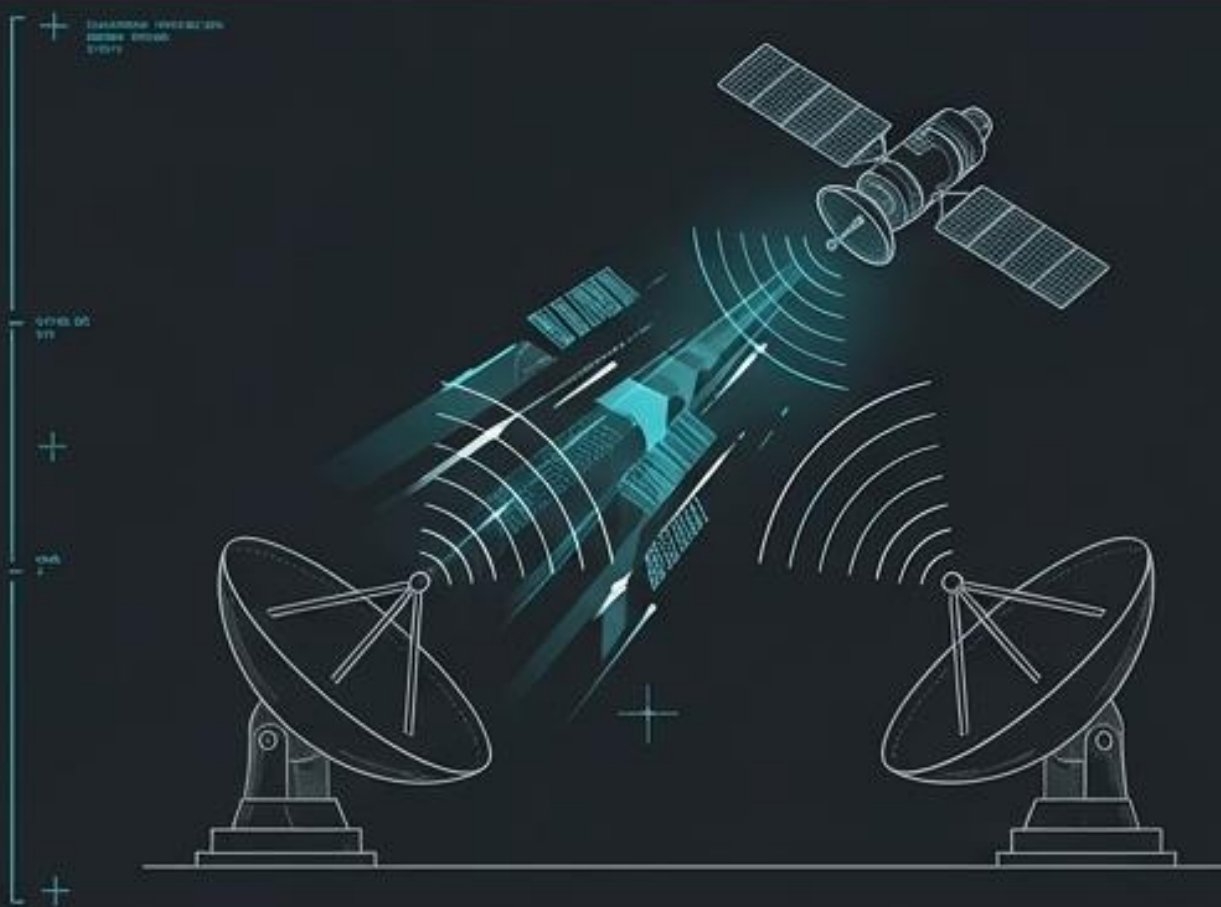
Stage II field telemetry confirms a highly localized, dual-horizon gas deposit structurally defined as an anticline fold.



Targeting Action: Exploratory drilling is recommended exclusively in the central zone (3.1 km^2 productive footprint) targeting Horizon 1 (3725m) and Horizon 2 (3820m).

Bimodal Verification Architecture

Stage I: Space-Based Remote Sensing



Utilizing remote sensing (DZZ) and space imagery processed in IR-100 radiation fields to identify macro hydrocarbon boundaries.

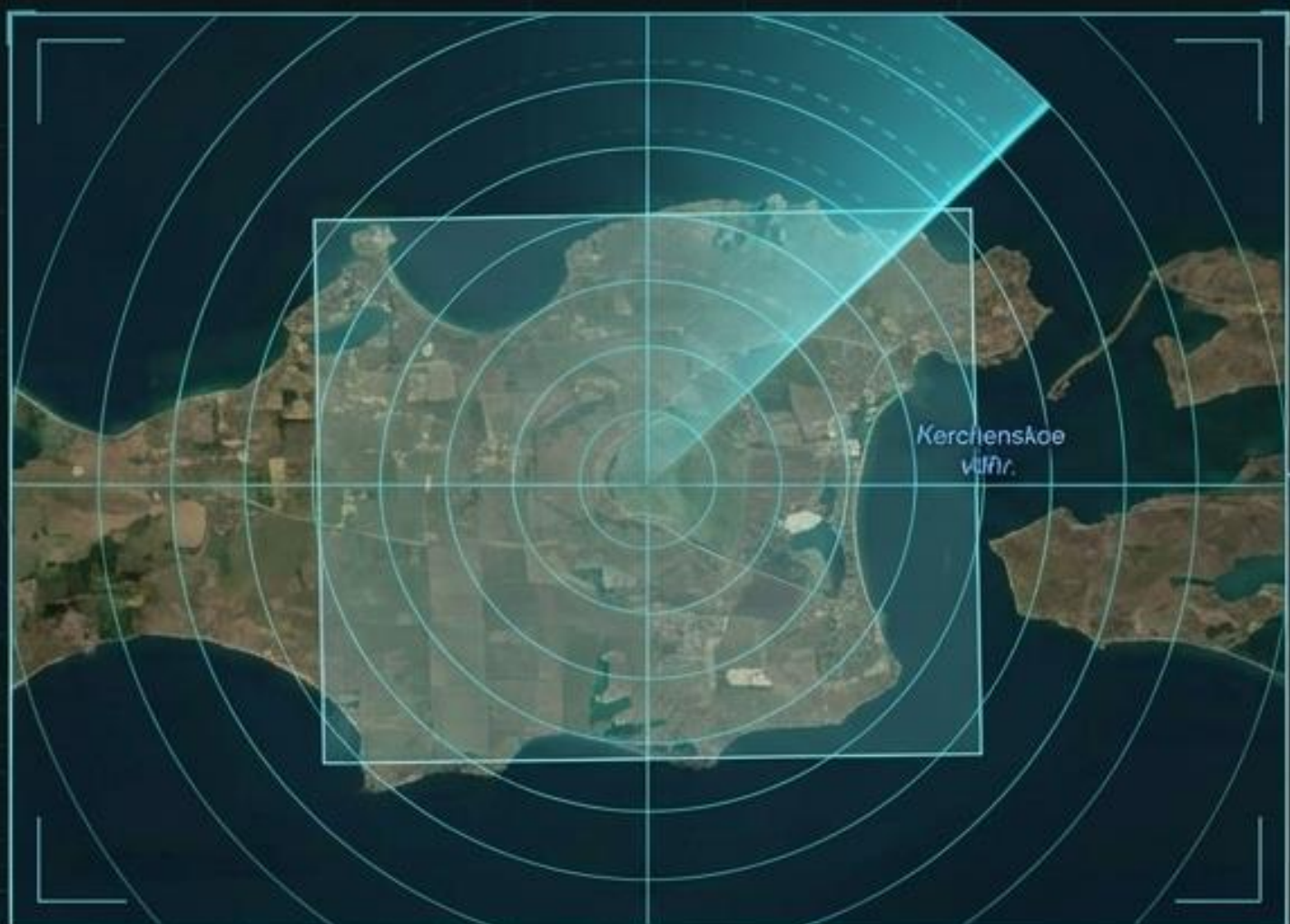
Stage II: Mobile Field Resonance



Mobile resonance-testing field equipment deployed to anomalous zones. Utilizes low-power microwave emissions to excite hydrocarbons up to 5,000m deep and measure precise reservoir physics.

STAGE I TO II: REFINING THE SEARCH GRID

MACRO INTERFACE

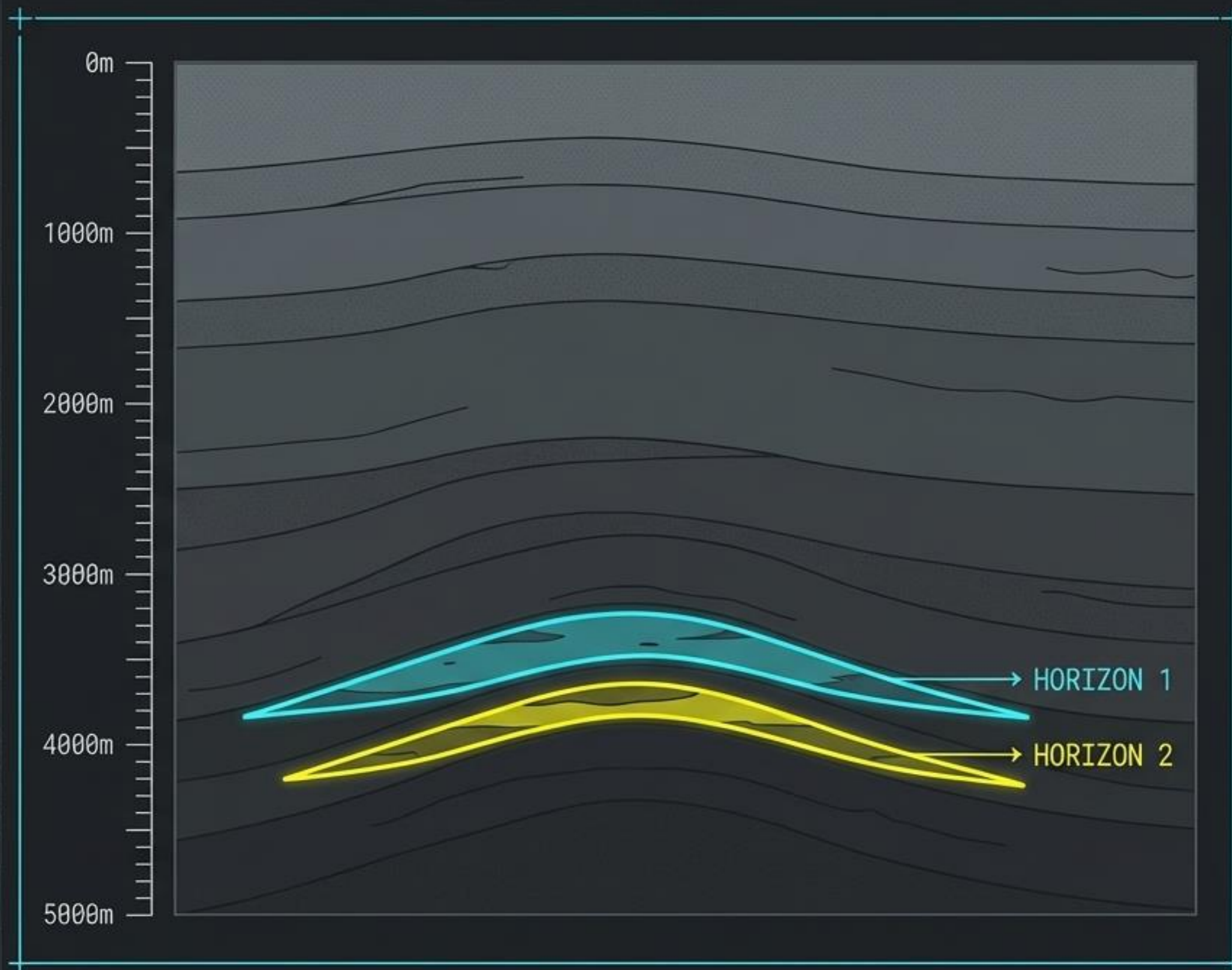


MICRO INTERFACE



- **Initial Scope (Stage I):** Remote satellite analysis scanned a massive 32 km² sector near Novonikolaevka, successfully identifying anomaly AG-1.

- **Field Refinement (Stage II):** Terrestrial NMR analysis revealed the anomaly edges lacked sufficient fracturing (porosity <10%) and gas saturation.
- **Final Productive Zone:** The viable commercial footprint was aggressively reduced and targeted to exactly 3.1 km².



STRATIGRAPHIC PROFILE OF THE ANTICLINE FOLD

STRUCTURE:

Vault-type deposit situated in a wide, latitudinal anticline fold stretching SW to NE (3.7 km × 1.0 km).

HORIZON 1:

Top depth: 3,725m - 3,930m |
Active Thickness (h1): ≈ 20m.

HORIZON 2:

Top depth: 3,820m - 4,050m |
Active Thickness (h2): ≈ 10m.

RESERVOIR MECHANICS:

Sandstone rock composition featuring optimal 10% to 15% porosity.

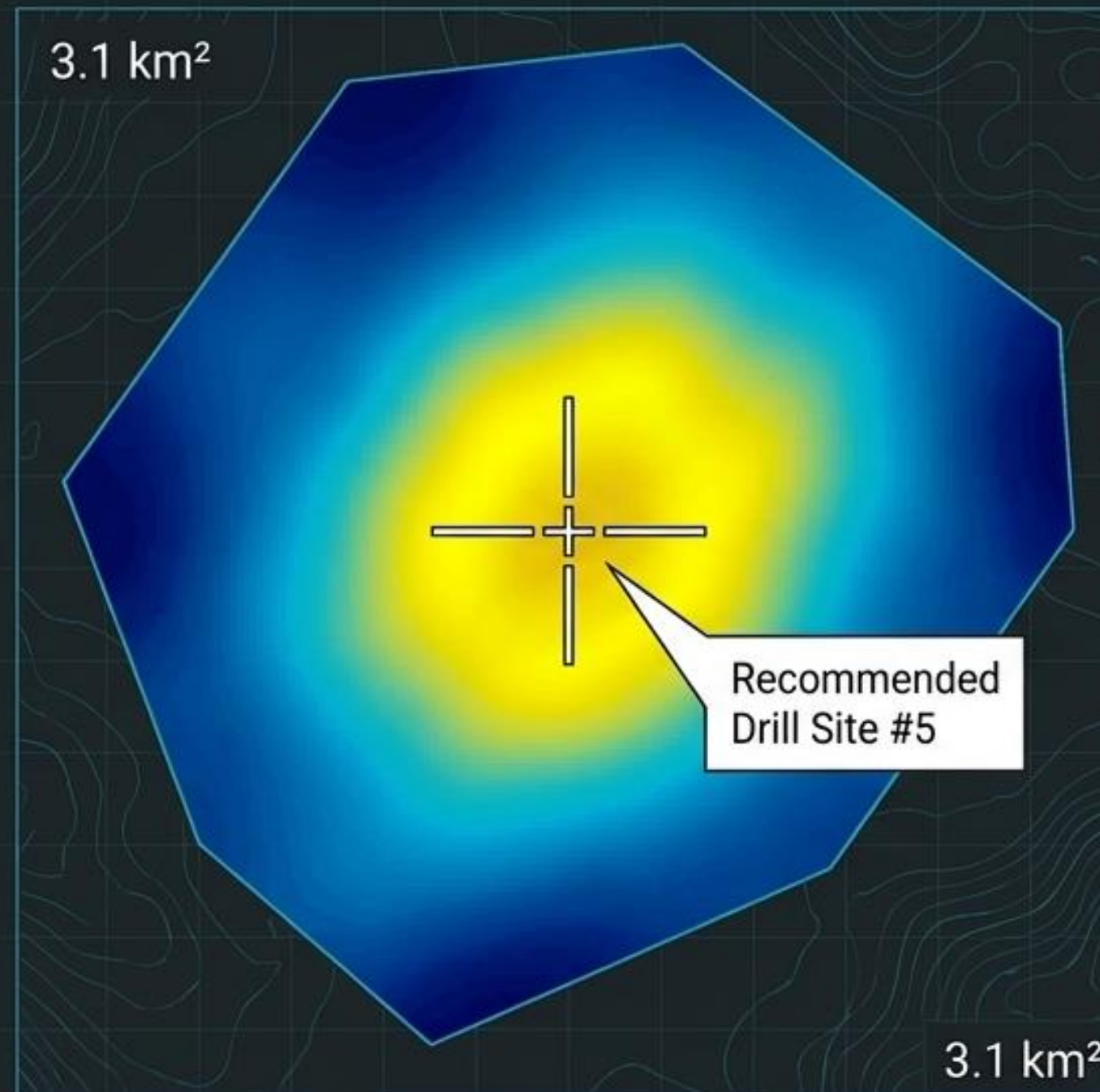
PINPOINTING THE COMMERCIAL SWEET SPOT

The Edge Falloff

Resonance spectra confirm that the peripheral areas of the anomaly suffer from low rock fracturing, rendering them commercially unviable.

XVI =: -5.833.93 N
COBR =: -2.833.198

Telemetry:
Thot: 72. 8/s
ADFL: 58. 8/s



The Central Core

The highest concentration of recoverable reserves sits directly in the central zone, featuring maximum porosity ($m = 12\div 15\%$).

Validation:

This localized targeting explains why 4 historical wells drilled blindly in this general area were dry, whereas targeting this specific central core de-risks the asset.

'Poisk' Global Track Record & Efficacy Metrics



96%

Success Rate

14 out of 15 drilled test wells globally yielded expected hydrocarbons.



97%

Rock Match

Lithological identification matches subsequent physical drilling.



$\pm 5-28\text{m}$

Depth Accuracy

Maintained across depths up to 4,200m.



$\pm 20-25$

Pressure Variance (atm)

Matches actual internal pressures discovered post-drilling.



Conclusion: Novonikolaevka findings carry a calculated reliability rating of **>90%** based on identical global testing methodologies.

The De-Risked Path Forward

Defined Asset:

521.6 Million m³ of recoverable gas locked in two highly mapped horizons.

X/Y: -5.833.93 N / N: -2.983.199

Unprecedented Targeting:

32 km² of guesswork reduced to a **3.1 km²** surgical drilling zone.

X/Y: -5.833.93 N / N: -2.983.199

Proven Mechanics: Supported by a methodology with a **96% global success rate** across 15 wells.

X/Y: -5.833.93 N / N: -2.983.199

FINAL DIRECTIVE: INITIATE STAGE III TECHNICAL PLANNING FOR TARGETED DRILLING IN THE CENTRAL 12-15% POROSITY ZONE.

VERSATILITY OF APPLICATION



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

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