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RSS-NMR SEVSU Poisk

СЕВАСТОПОЛЬСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

RSS NMR
THE SIMPLE WAY OF EXPLORATION

Precision Remote Exploration

RSS-NMR Service Capabilities & Engagement Protocol

A comprehensive briefing on geological target diagnostics, Stage 1/2 deliverables, and strict data submission standards for accurate project quoting.

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Oil & Gas

Greenfield exploration &
Brownfield refurbishment.

Hydrology

Fresh water, thermal water, distillation
targets, and magma-adjacent sources.

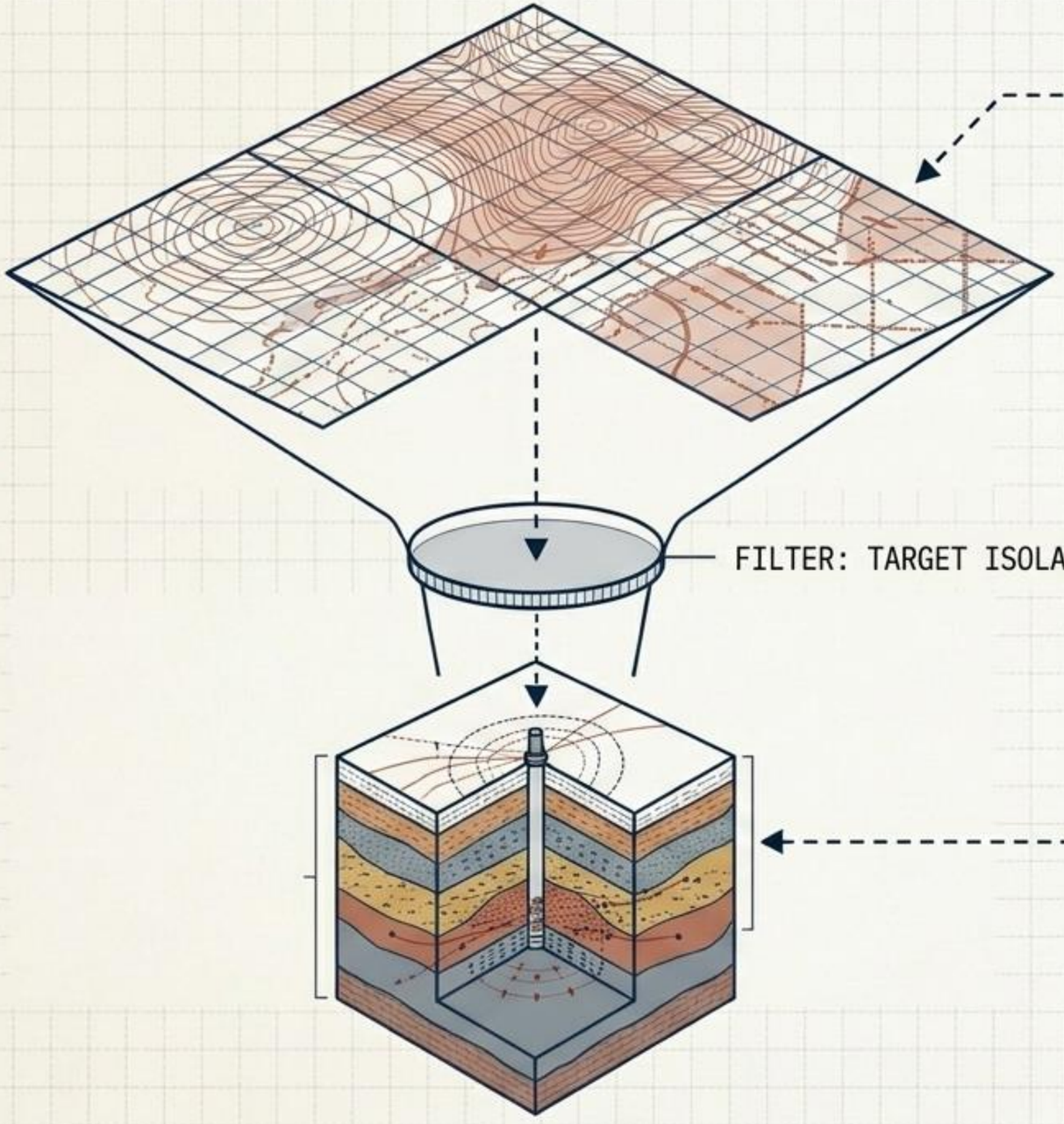
Mining

Metal deposit identification.

Gemology

Mother stone and specialized
precious material targeting.

For unlisted targets, explicit geological and geophysical
parameters must be submitted for laboratory consu



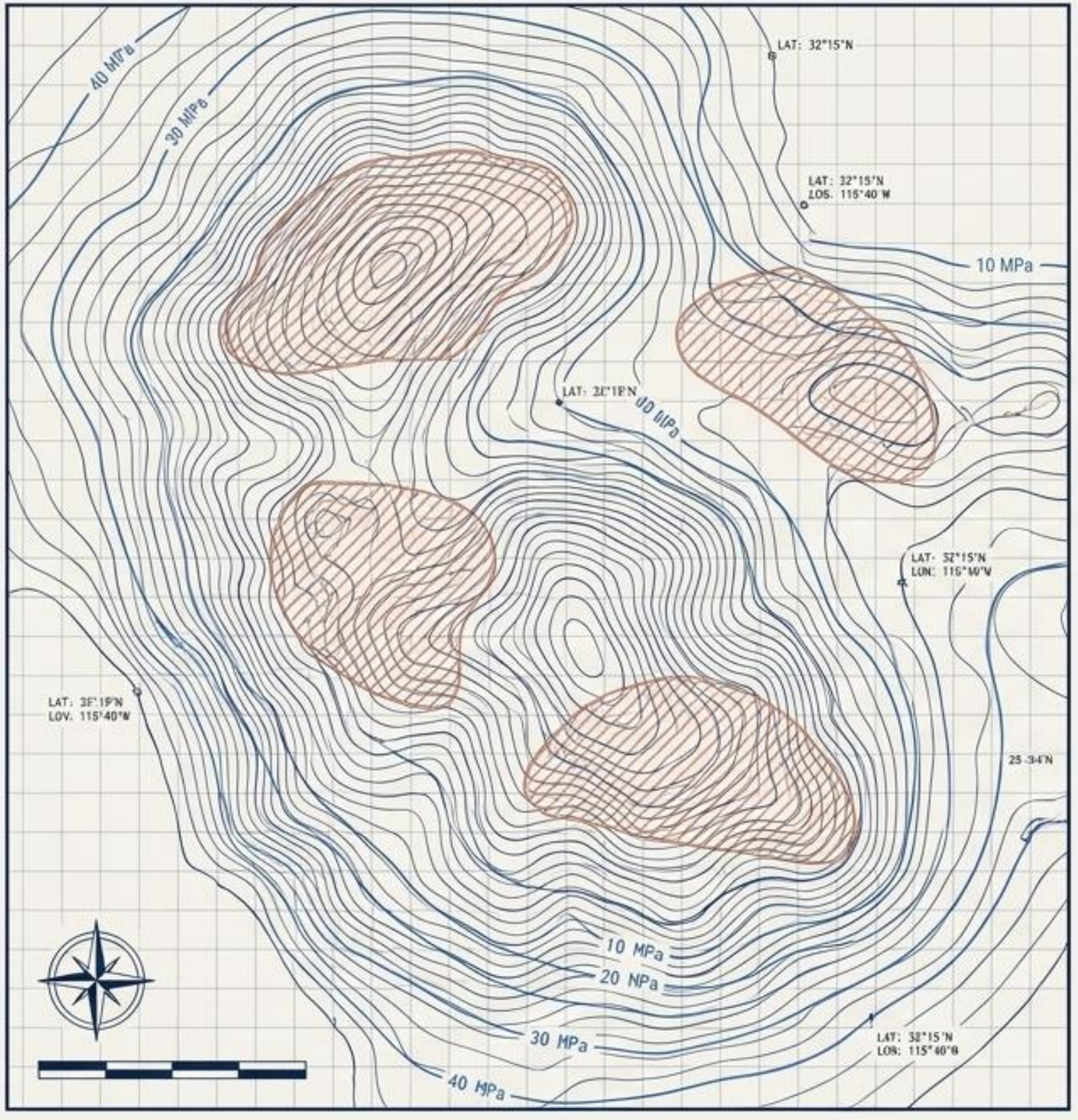
FILTER: TARGET ISOLATION

PHASE 1: MACRO DIAGNOSTICS (STAGE 1)

Scanning wide onshore/offshore areas
Scanning wide onshore/offshore areas (5-7km depth) to map ground contours, identify hydrostatic pressure zones, and isolate the most promising deposits.

PHASE 2: MICRO ANALYSIS (STAGE 2)

Deploying detailed remote surveys on the isolated deposits to extract precise volumetric, structural, and compositional reservoir data.



Stage 1: Macro Diagnostics & Deposit Isolation

Target Depth: 5-7 km (Onshore & Offshore)

Primary Deliverables:

- Maps of studied fields with precise, coordinate-tied ground contours of detected deposits (including water surface contours).
- Zones of maximum signal response.
- Isolines of signal responses measured in units of hydrostatic pressure (MPa).
- Final isolation of the most perspective areas requiring Stage 2 detailed research.

Anatomy of a Reservoir: Stage 2 Detailed Survey

ARCHITECTURE

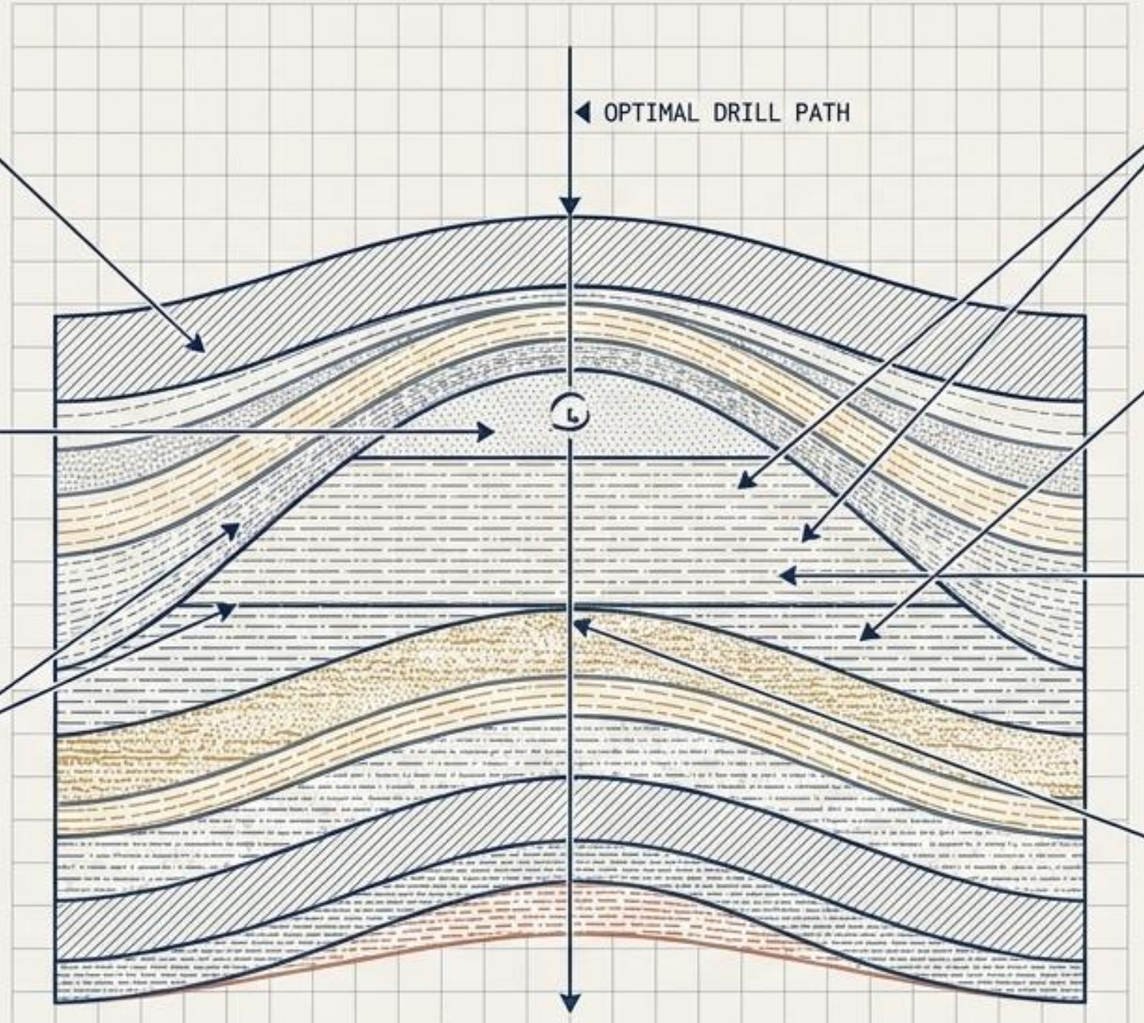
Roof structural maps and vertical sections of hydrocarbon reservoirs.

GAS CAP DYNAMICS

Presence of gas cap over the oil horizon and indicative gas pressure.

TRAP EXTENTS

Limits for the extension of traps.



HORIZONS

Number and exact depth of horizons.

HYDRO-INTERACTIONS

Presence of water under the oil horizon.

VOLUMETRICS

Calculated volume of layers filled with gas/oil and preliminary resource forecasting.

TARGET ACQUISITION

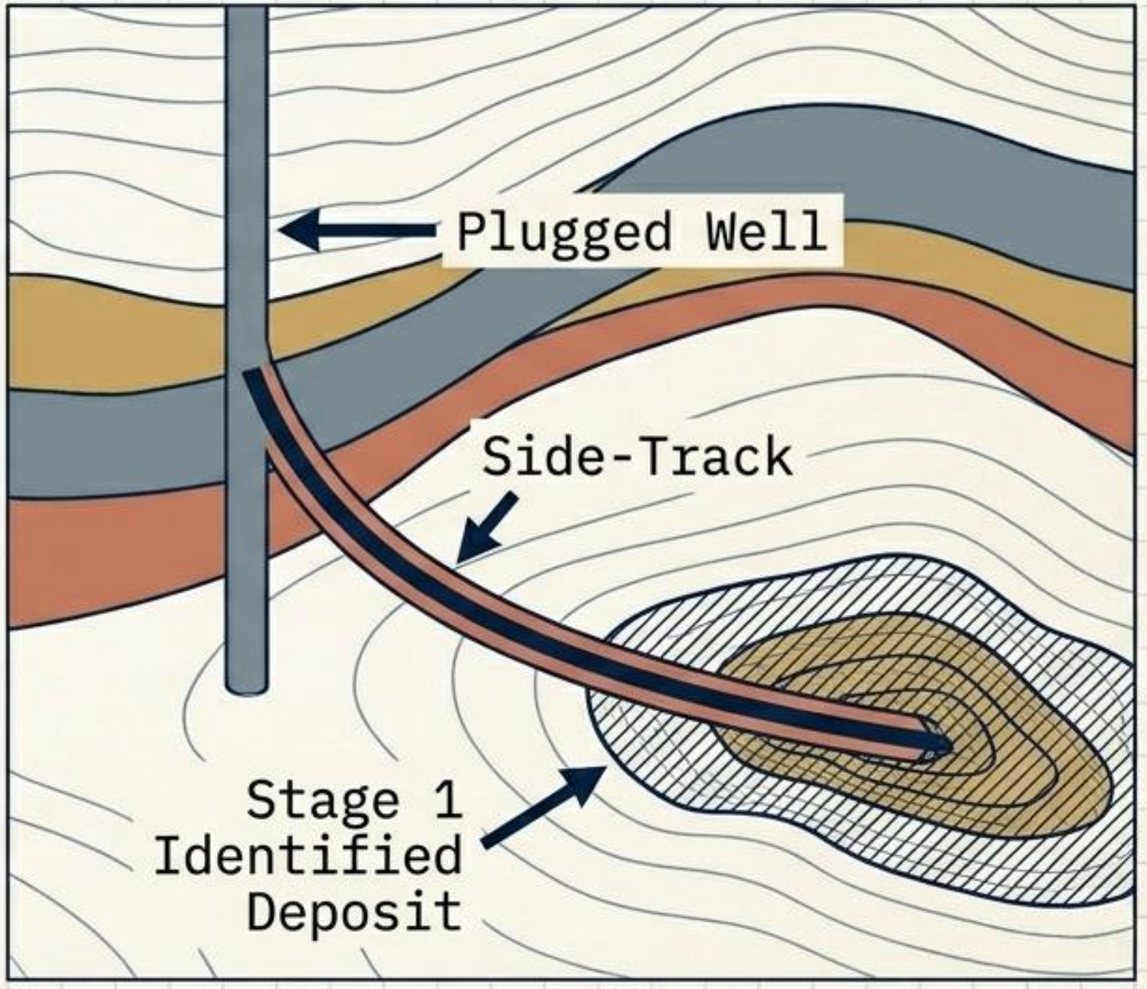
Identification of optimum drilling points based on maximum signal response.

Stage 1 vs. Stage 2: Comparative Diagnostics Matrix

	Stage 1 Macro Diagnostics	Stage 2 Detailed Survey
PRIMARY TASK	→ Detect, identify, delineate, and assess promising areas.	→ Obtain basic structural data on deposit occurrence.
OUTPUT FOCUS	→ 2D geographic contours and pressure isolines.	→ 3D vertical scan data columns, volumes, and drill points.
PRICING DEPENDENCY	→ Dependent entirely on the area of exploration; greenfield vs. brownfield philosophies differ.	→ Dependent on size, shape of the field, and depth interval of the survey.

Strategic Application: Brownfield Optimization

RSS-NMR data is highly effective for refurbishing brownfields. Following a Stage 1 diagnostic survey, clients can specify precise areas to intercept existing infrastructure.



Outcome

By tying into existing plugged wells, operators drastically slash drilling costs by executing precise side-track wells targeted directly at newly mapped perspectives.

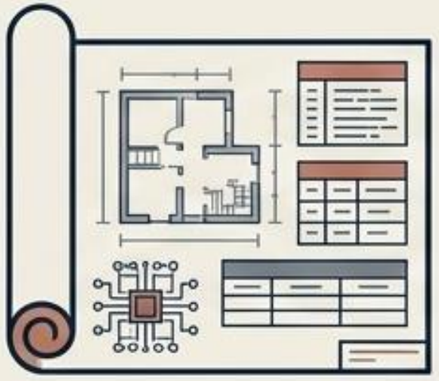
Engagement Protocol: Three-Step Process Flowchart

Step 1: Client Submission

Client provides target description, area geophysical/geological info, chosen scope (Stage 1, 2, or both), and strictly formatted WGS-84 coordinate tables.

Step 2: RSS-NMR Laboratory Review

Remote laboratory verification of geographic perimeters and target viability to ensure zero GPS targeting errors.



Step 3: Final Delivery

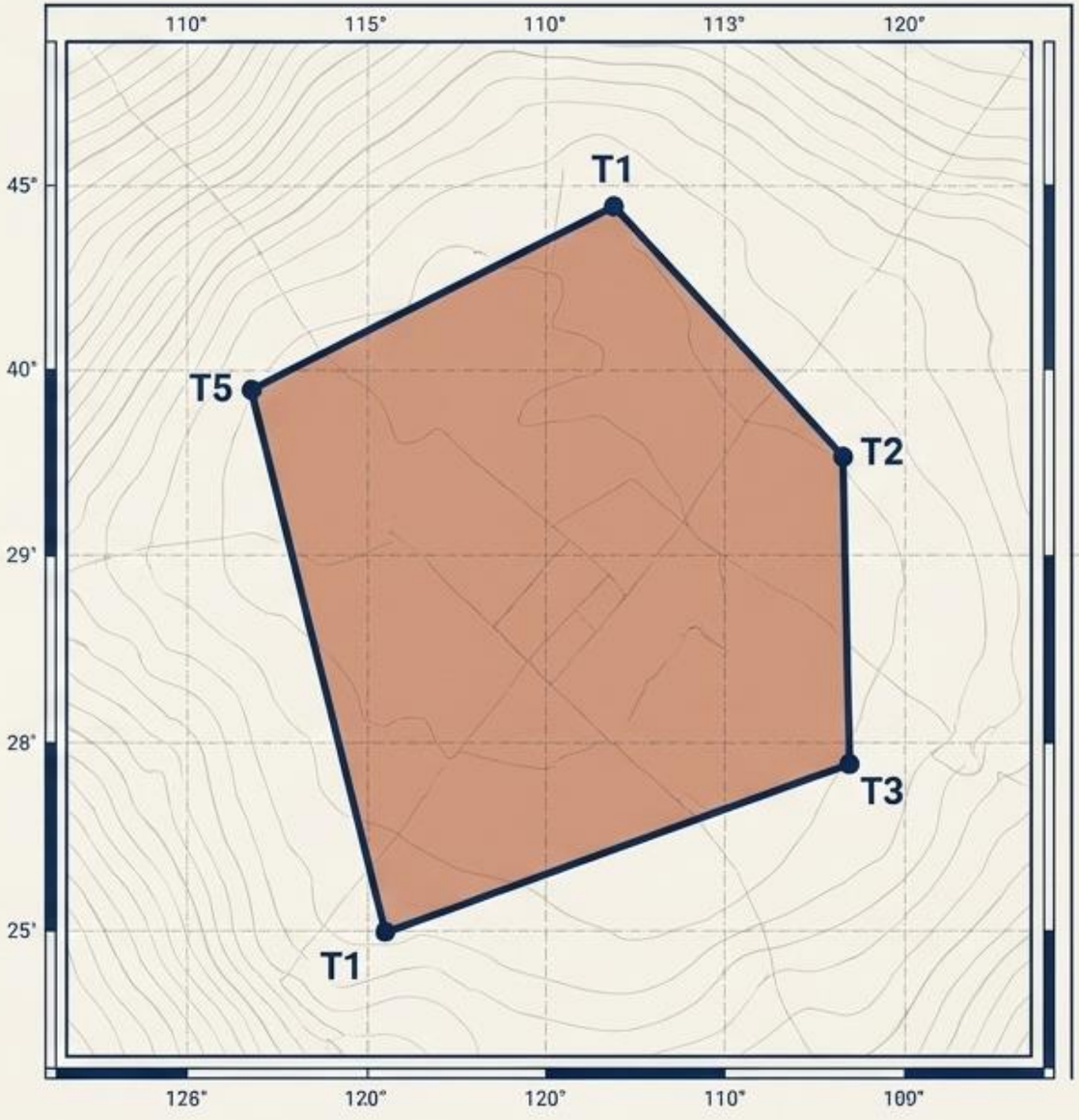
RSS-NMR outputs the Technical Specifications, Legal Agreement, preliminary site maps, and formalized pricing.

Definition of the Geolocation Perimeter

These marked points define the exact laboratory exploration perimeter.

Use the exact points needed to delineate your study area. Square or rectangular perimeters are highly recommended for optimal boundary scanning.

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



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Data Standard Protocol

The WGS-84 Standard

All geographical coordinates must be submitted in the WGS-84 datum.

Latitude specifies North (N) / South (S) of the equator.
Longitude specifies East (E) / West (W) of the prime meridian.

Accepted Google Maps Formats

Degrees, Minutes, Seconds (DMS) (Preferred)

```
41°24'12.2"N 2°10'26.5"E
```

Degrees & Decimal Minutes (DMM)

```
41 24.2028, 2 10.4418
```

Decimal Degrees (DD)

```
41.40338, 2.17403
```

Required Coordinate Data Schema

Submit one separate table of coordinates for each discrete area to be studied.
Enclosing a visual schema is highly recommended.

Point	Latitude				Longitude			
	degree	minute	second	S or N	degree	minute	second	E or W
A								
B								
C								
D								

Quote Request Preparation Checklist

- [ ] **Target Definition**
  What exactly are you looking for? (e.g., greenfield oil, thermal water).
- [ ] **Contextual Data**
  Enclose available geophysical and geological information about the area.
- [ ] **Exploration Scope**
  Specify the required intervention (Stage 1 Diagnostics, Stage 2 Detailed Survey, or Combined 1 & 2).
- [ ] **Coordinate Schema**
  Completed WGS-84 coordinate tables for each boundary point (N-S-E-W).
- [ ] **Visual Perimeter**
  Included map or schema visually outlining the T1-TX polygon boundary.

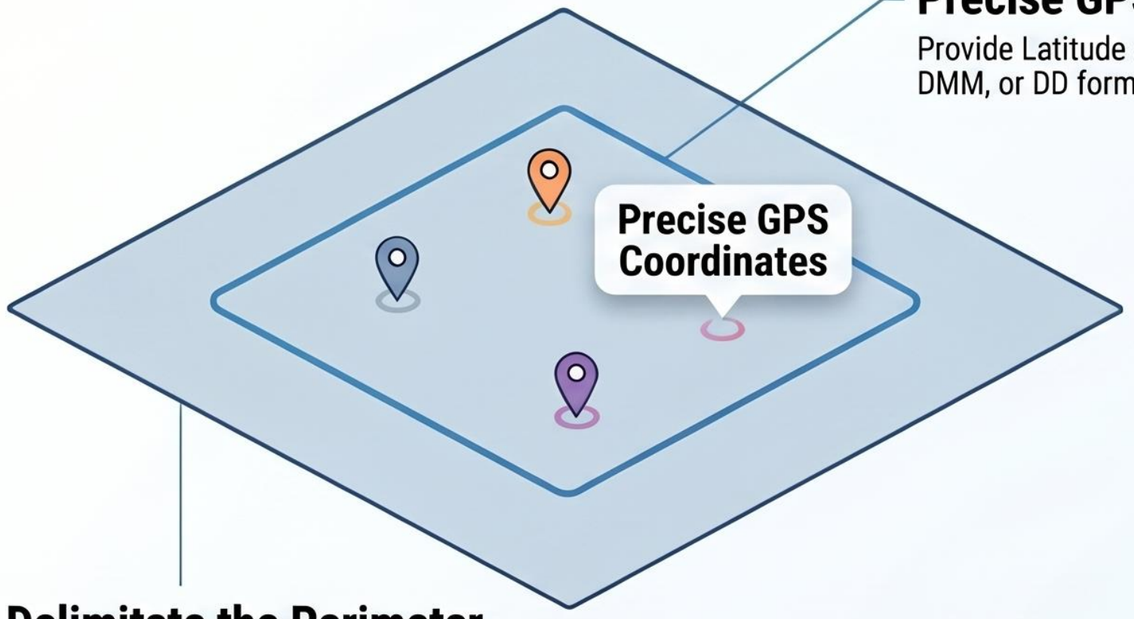
How to Request an RSS-NMR Exploration Quote

1. DEFINING THE STUDY AREA

Precise GPS Coordinates

Provide Latitude and Longitude using DMS, DMM, or DD formats in WGS-84 datum.

- **DMS:** 41°24'12.2"N 2°10'26.5"E
- **DMM:** 41 24.2023, 2 10.4418
- **DD:** 41.40338, 2.17403



Delimitate the Perimeter

Enclose a schema or coordinate table defining a square or rectangular area for study.

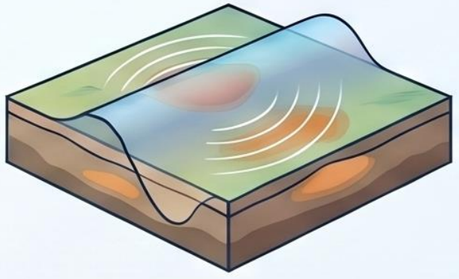
Identify Your Target

Oil · Gas · Water (Fresh/Thermal) · Metals · Gems

2. YOUR EXPLORATION STAGE

(We will complete both stages in 4-6 months.)

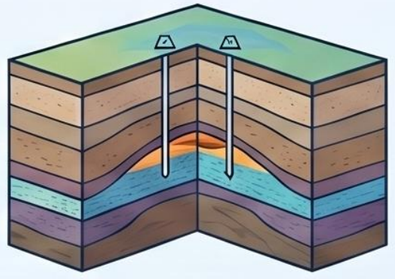
1: Diagnostic Survey



Stage 1: Diagnostic Survey

Identifies and delineates deposits up to 7km deep to assess high-promise zones.

2: Detailed Remote Survey



Stage 2: Detailed Remote Survey

Provides reservoir occurrence data, including depth, horizons, gas caps, and optimum drilling points.

Variable Pricing Factors

- Area Size
- Exploration Depth
- Field Shape

Costs are calculated based on area size, exploration depth, and field shape.

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