

AI technology drives empowerment and raises new and qualitative productivity in mining

Deep Explor (Beijing) Technology Co., Ltd.

Beijing Deep Leader Innovation Intelligence Technology Co., Ltd.

Application of the new generation of comprehensive mineral exploration and prospecting technology based on artificial intelligence (AI)

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CONTENT

Part 01

Company
Presentation

Part 02

Introduction of
the technology

Part 03

Industrial cases

Company Presentation



Founded on November 8, 2019, Deep Explor (Beijing) Technology Co., Ltd. is the first domestic company to explore the Earth from outer space, deeply integrating satellite-guided, ultra-weak nuclear magnetic resonance AI digital technology with cutting-edge geotechnical exploration technologies. It is an innovative technology solutions provider offering integrated "AI + Earth Science" and "star-space-Earth" services in the field of natural resource exploration.

Part 01

Beijing Deep Leader Innovation Intelligence Technology Co., Ltd. is a company specializing in technical services and research and development founded by Deep Explor (Beijing) Technology Co., Ltd., based on the development of AI digital sensing technology, with the aim of providing sensing services in multiple fields through the application of this technology.

We bring together transdisciplinary talents in theoretical physics, geological research, mineral exploration and AI algorithms, forming an internationally leading team in comprehensive technical services for AI-based mineral prospecting.

Our team was the first in China to apply AI digital technology to natural resource detection, enabling us to offer rapid solutions for resource exploration. We provide users with an agile, accurate, and environmentally friendly mineral prospecting method, offering new insights and leads in the search for minerals. Our technology combines the technological capabilities of disciplines such as particle physics, quantum mechanics, radiological chemistry, mathematics, and artificial intelligence, directly detecting the intrinsic radiation information of matter, reducing the uncertainty inherent in traditional exploration technologies, and effectively improving the efficiency and accuracy of resource exploration.

We will continue to strive in more fields (quantum materials, quantum communication, quantum medicine) to create more value for society.

Capacity of Service



Detection Capability

Zone of Exploration	It can cover any type of terrain, such as land, platform continental marine, etc., without a maximum area limit.
Depth of Detection	Hydrocarbons, water and geothermal energy: Up to 8,000 meters deep underground. Solid metallic minerals: Up to 2,000 meters deep underground.
Rate of Meeting of Mines in Areas Anomalous	Hydrocarbons, water and geothermal energy: 70%-80%. Solid metallic minerals: 50%-70%.
Environmental protection	Non-invasive remote work, with no physical impact on the environment, environmentally friendly and green.
Remote work time	2-6 months

Introduction of the technology



Part 02

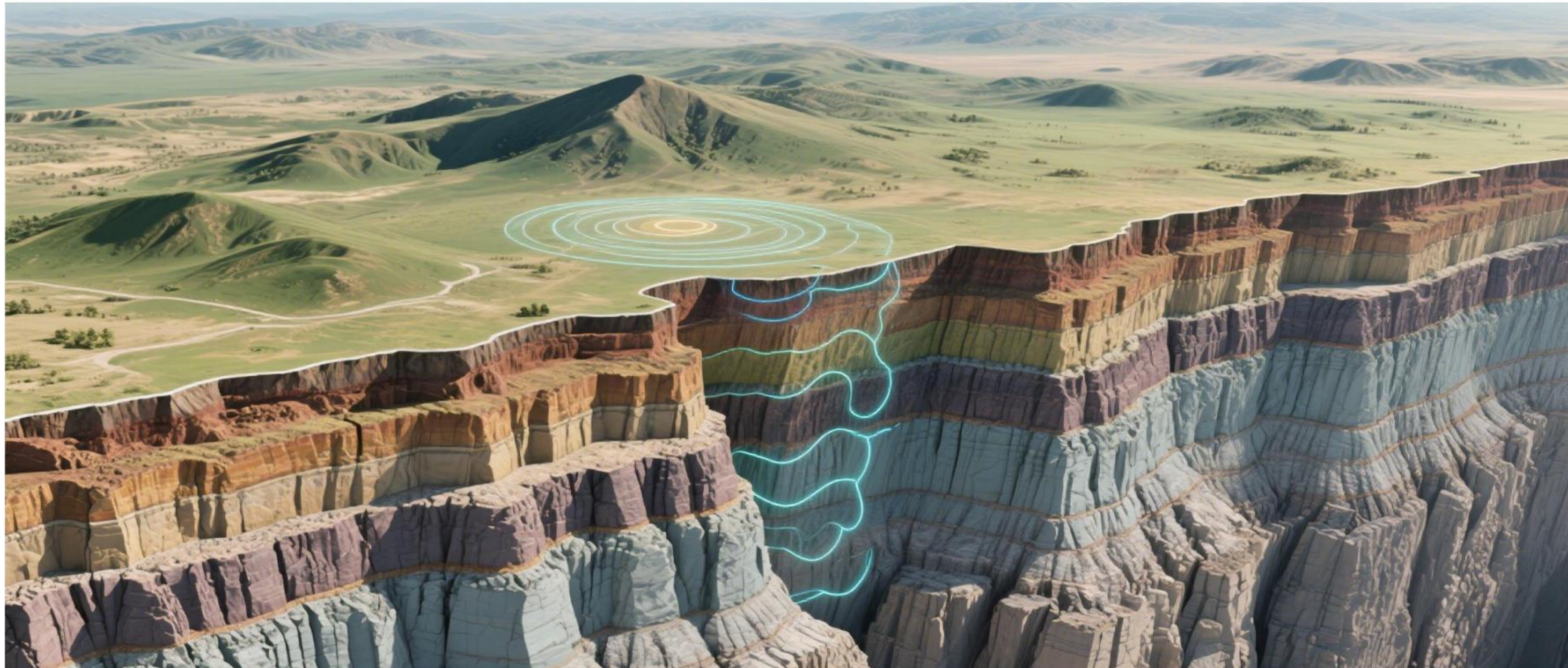
Deep-Explor® technology offers an efficient and environmentally friendly method of mineral exploration by combining subatomic radiation detection and digital image processing. Its core innovation lies in the use of subatomic particle penetrability and the resonant excitation principle, which significantly improves detection accuracy.

Unlike traditional exploration technologies ("geology, physics, chemistry, remote sensing"), Deep-Explor® technology is not limited by objective conditions such as terrain, geography, weather, etc., and can directly identify and locate terrestrial mineral resources such as metals, non-metals, hydrocarbons, and groundwater.

This technology reduces overall mining prospecting costs and greatly improves labor efficiency.

Technical

principle: Radiation fields generated by substances from different lithological units accumulate above the Earth's surface.



- The radiation fields accumulated on the Earth's surface can be captured through remote sensing systems.
- The captured radiation information is analyzed to filter the subatomic field generated by the substance of interest.

Technical

principle: The unique radiations generated by the distinct properties of substances form an information field superimposed above the Earth's surface.



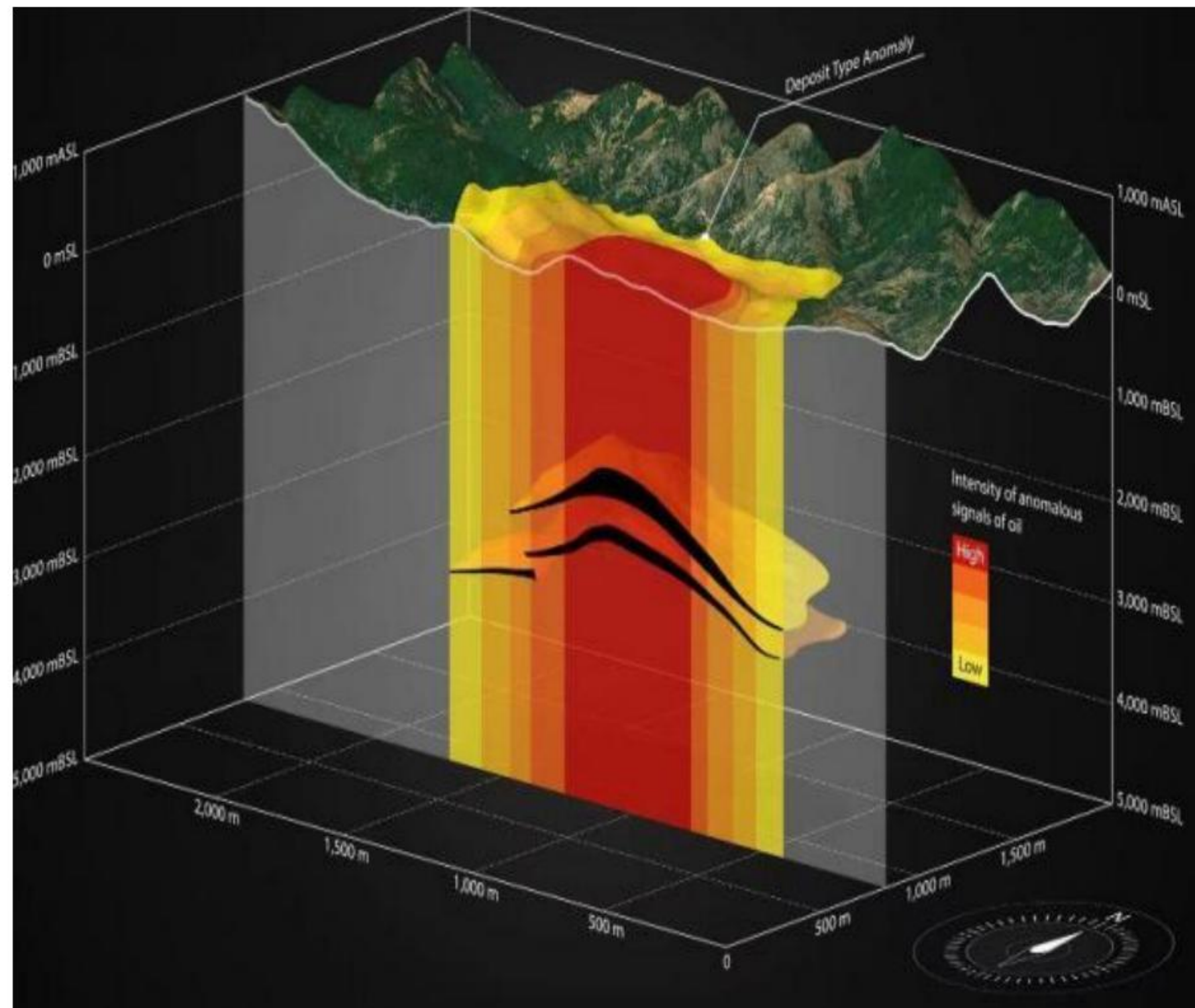
- Information from any point on Earth is superimposed on a field, which includes not only specific radiation fields from different properties of substances, but also the Earth's inherent electromagnetic field.



- All elements in the Earth's crust are in an excited state and continuously emit inherent subatomic information with their unique amplitudes and frequencies.

Technical principle:

Description of Anomalous Zone



- In the processing of simulated satellite images of the search area, the intensity of anomalous radiative information is analyzed.
- The greater the intensity of the anomalous information radiative, may be due to a larger volume, a degree higher, a shallower depth, or a combination of the above factors.
- Formula for the radiative intensity indicator: $I = W \cdot V \cdot G / D$

I: Radiation Intensity in Anomalous Zone

V: Volume of the Mineral Deposit

W: Combined Weighted Coefficient

G: Grade of the Mineral Sought

D: Depth of Deposit

Technical Characteristics of Deep-Explor Technology Compared to Traditional Exploration Technologies

Existing traditional methods

Geology - Physics - Chemistry - Remote Sensing



Infer Properties Geological

Methods adopted by this technology

Highly sensitive methods for detecting the subatomic radiation emitted by each element



Directly locate the substance

Traditional exploration techniques

- Invest hundreds of thousands of dollars in High risk before obtaining clear conclusions;
- Method effectiveness: <30%;
- Total exploration time: ~3-7 years.

VS

Deep-Explor Exploration Techniques •

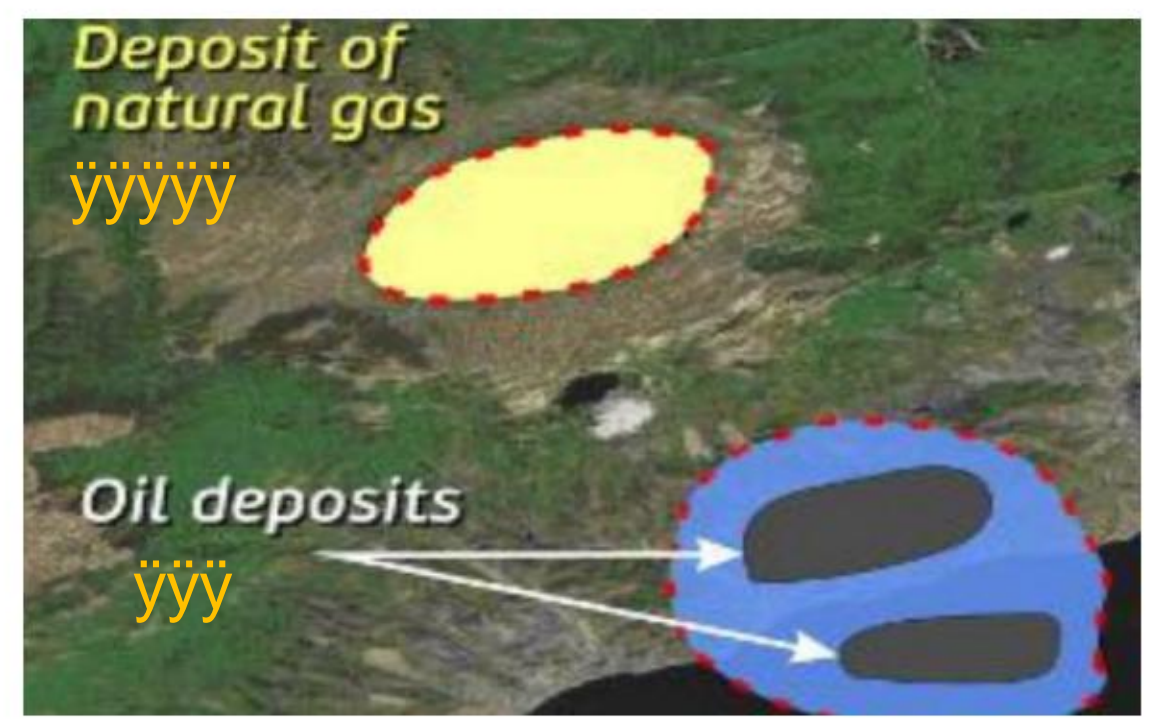
- Response time and strategic decision-making are based on real-time information;
- Method effectiveness: >80% for gases and liquids, >70% for solids;
- Total exploration time: 4-6 months.

Implementation of the Technical Plan

1. Remote Satellite Scanning



2. Processing by AI Resonance Model Magnetic Targada



3. On-site validation in the Targada Zone

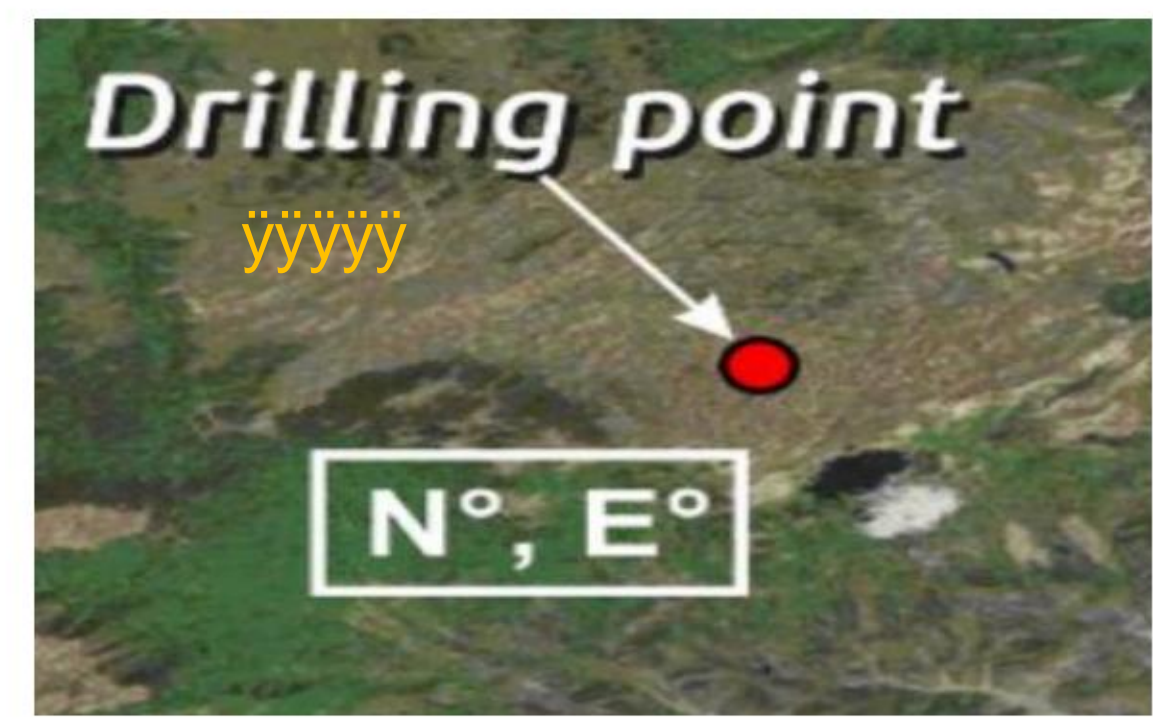
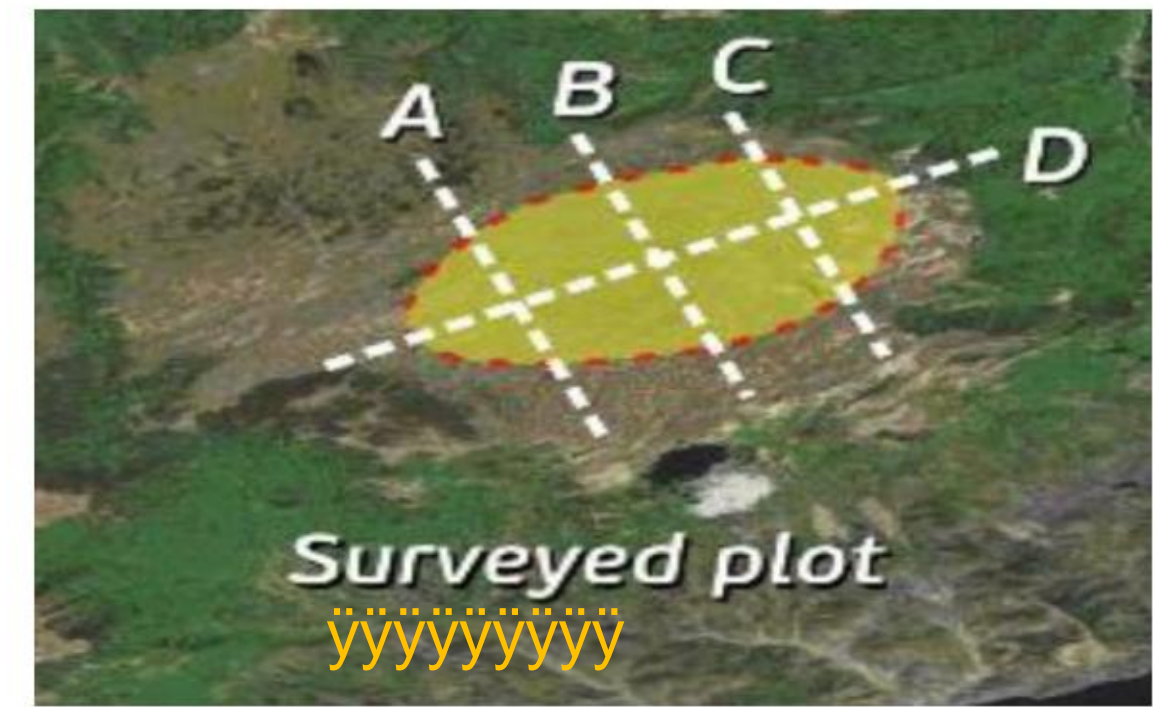
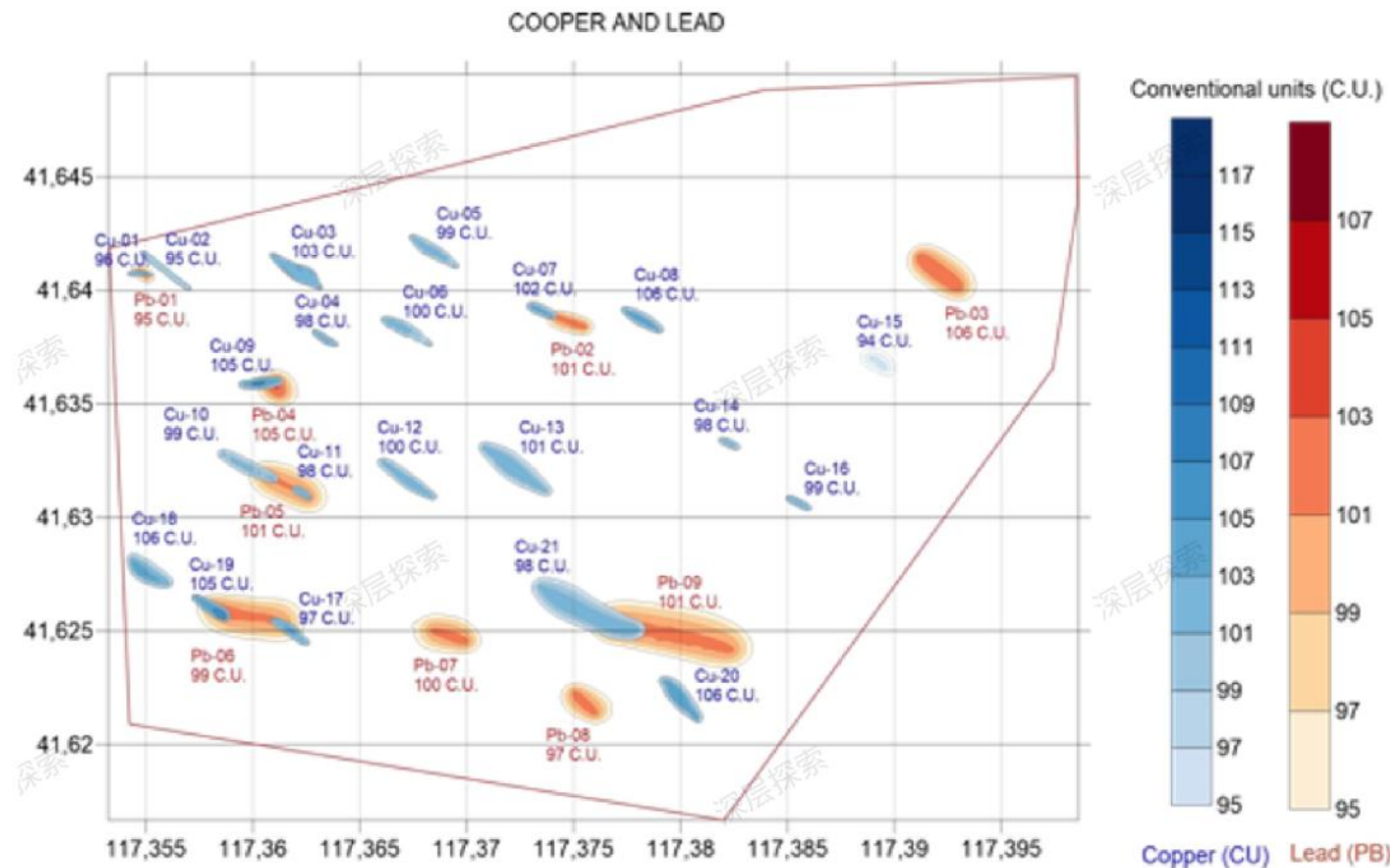
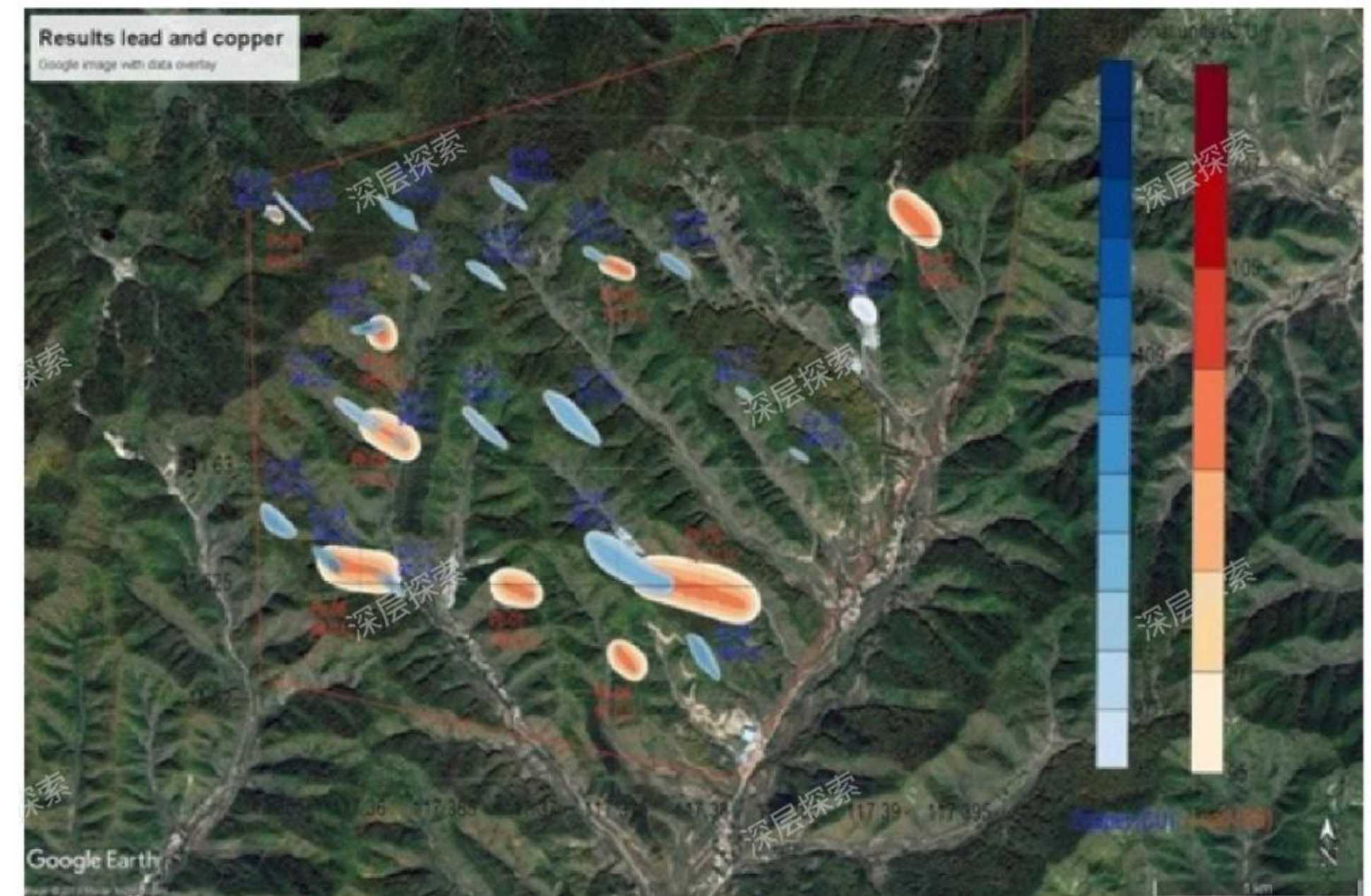


Illustration of the Technical Results: Exploration of a Polymetallic Mineral with Deep-Explor® Technology



1. Projection of Anomalous Zones on the Earth's Surface



2. Results of copper and lead anomalous zones on the Google satellite map

Table with coordinates, dimension and size of each anomaly

Anomaly code	Mineral	Intensity (C.U.)	Size, sq. m	Description
C-04	Copper	98	2 353	A: 10' x 10' m B: 20' x 20' m C: 30' x 30' m D: 40' x 40' m E: 50' x 50' m F: 60' x 60' m G: 70' x 70' m H: 80' x 80' m I: 90' x 90' m J: 100' x 100' m K: 110' x 110' m L: 120' x 120' m M: 130' x 130' m N: 140' x 140' m O: 150' x 150' m P: 160' x 160' m Q: 170' x 170' m R: 180' x 180' m S: 190' x 190' m T: 200' x 200' m U: 210' x 210' m V: 220' x 220' m W: 230' x 230' m X: 240' x 240' m Y: 250' x 250' m Z: 260' x 260' m AA: 270' x 270' m AB: 280' x 280' m AC: 290' x 290' m AD: 300' x 300' m AE: 310' x 310' m AF: 320' x 320' m AG: 330' x 330' m AH: 340' x 340' m AI: 350' x 350' m AJ: 360' x 360' m AK: 370' x 370' m AL: 380' x 380' m AM: 390' x 390' m AN: 400' x 400' m AO: 410' x 410' m AP: 420' x 420' m AQ: 430' x 430' m AR: 440' x 440' m AS: 450' x 450' m AT: 460' x 460' m AU: 470' x 470' m AV: 480' x 480' m AW: 490' x 490' m AX: 500' x 500' m AY: 510' x 510' m AZ: 520' x 520' m BA: 530' x 530' m BB: 540' x 540' m BC: 550' x 550' m BD: 560' x 560' m BE: 570' x 570' m BF: 580' x 580' m BG: 590' x 590' m BH: 600' x 600' m BI: 610' x 610' m BJ: 620' x 620' m BK: 630' x 630' m BL: 640' x 640' m BM: 650' x 650' m BN: 660' x 660' m BO: 670' x 670' m BP: 680' x 680' m BQ: 690' x 690' m BR: 700' x 700' m BS: 710' x 710' m BT: 720' x 720' m BU: 730' x 730' m BV: 740' x 740' m BW: 750' x 750' m BX: 760' x 760' m BY: 770' x 770' m BZ: 780' x 780' m CA: 790' x 790' m CB: 800' x 800' m CC: 810' x 810' m CD: 820' x 820' m CE: 830' x 830' m CF: 840' x 840' m CG: 850' x 850' m CH: 860' x 860' m CI: 870' x 870' m CJ: 880' x 880' m CK: 890' x 890' m CL: 900' x 900' m CM: 910' x 910' m CN: 920' x 920' m CO: 930' x 930' m CP: 940' x 940' m CQ: 950' x 950' m CR: 960' x 960' m CS: 970' x 970' m CT: 980' x 980' m CU: 990' x 990' m CV: 1000' x 1000' m CW: 1010' x 1010' m CX: 1020' x 1020' m CY: 1030' x 1030' m CZ: 1040' x 1040' m DA: 1050' x 1050' m DB: 1060' x 1060' m DC: 1070' x 1070' m DD: 1080' x 1080' m DE: 1090' x 1090' m DF: 1100' x 1100' m DG: 1110' x 1110' m DH: 1120' x 1120' m DI: 1130' x 1130' m DJ: 1140' x 1140' m DK: 1150' x 1150' m DL: 1160' x 1160' m DM: 1170' x 1170' m DN: 1180' x 1180' m DO: 1190' x 1190' m DP: 1200' x 1200' m DQ: 1210' x 1210' m DR: 1220' x 1220' m DS: 1230' x 1230' m DT: 1240' x 1240' m DU: 1250' x 1250' m DV: 1260' x 1260' m DW: 1270' x 1270' m DX: 1280' x 1280' m DY: 1290' x 1290' m DZ: 1300' x 1300' m EA: 1310' x 1310' m EB: 1320' x 1320' m EC: 1330' x 1330' m ED: 1340' x 1340' m EE: 1350' x 1350' m EF: 1360' x 1360' m EG: 1370' x 1370' m EH: 1380' x 1380' m EI: 1390' x 1390' m EJ: 1400' x 1400' m EK: 1410' x 1410' m EL: 1420' x 1420' m EM: 1430' x 1430' m EN: 1440' x 1440' m EO: 1450' x 1450' m EP: 1460' x 1460' m EQ: 1470' x 1470' m ER: 1480' x 1480' m ES: 1490' x 1490' m ET: 1500' x 1500' m EU: 1510' x 1510' m EV: 1520' x 1520' m EW: 1530' x 1530' m EX: 1540' x 1540' m EY: 1550' x 1550' m EZ: 1560' x 1560' m FA: 1570' x 1570' m FB: 1580' x 1580' m FC: 1590' x 1590' m FD: 1600' x 1600' m FE: 1610' x 1610' m FF: 1620' x 1620' m FG: 1630' x 1630' m FH: 1640' x 1640' m FI: 1650' x 1650' m FJ: 1660' x 1660' m FK: 1670' x 1670' m FL: 1680' x 1680' m FM: 1690' x 1690' m FN: 1700' x 1700' m FO: 1710' x 1710' m FP: 1720' x 1720' m FQ: 1730' x 1730' m FR: 1740' x 1740' m FS: 1750' x 1750' m FT: 1760' x 1760' m FU: 1770' x 1770' m FV: 1780' x 1780' m FW: 1790' x 1790' m FX: 1800' x 1800' m FY: 1810' x 1810' m FZ: 1820' x 1820' m GA: 1830' x 1830' m GB: 1840' x 1840' m GC: 1850' x 1850' m GD: 1860' x 1860' m GE: 1870' x 1870' m GF: 1880' x 1880' m GG: 1890' x 1890' m GH: 1900' x 1900' m GI: 1910' x 1910' m GJ: 1920' x 1920' m GK: 1930' x 1930' m GL: 1940' x 1940' m GM: 1950' x 1950' m GN: 1960' x 1960' m GO: 1970' x 1970' m GP: 1980' x 1980' m GQ: 1990' x 1990' m GR: 2000' x 2000' m GS: 2010' x 2010' m GT: 2020' x 2020' m GU: 2030' x 2030' m GV: 2040' x 2040' m GW: 2050' x 2050' m GX: 2060' x 2060' m GY: 2070' x 2070' m GZ: 2080' x 2080' m HA: 2090' x 2090' m HB: 2100' x 2100' m HC: 2110' x 2110' m HD: 2120' x 2120' m HE: 2130' x 2130' m HF: 2140' x 2140' m HG: 2150' x 2150' m HH: 2160' x 2160' m HI: 2170' x 2170' m HJ: 2180' x 2180' m HK: 2190' x 2190' m HL: 2200' x 2200' m HM: 2210' x 2210' m HN: 2220' x 2220' m HO: 2230' x 2230' m HP: 2240' x 2240' m HQ: 2250' x 2250' m HR: 2260' x 2260' m HS: 2270' x 2270' m HT: 2280' x 2280' m HU: 2290' x 2290' m HV: 2300' x 2300' m HW: 2310' x 2310' m HX: 2320' x 2320' m HY: 2330' x 2330' m HZ: 2340' x 2340' m IA: 2350' x 2350' m IB: 2360' x 2360' m IC: 2370' x 2370' m ID: 2380' x 2380' m IE: 2390' x 2390' m IF: 2400' x 2400' m IG: 2410' x 2410' m IH: 2420' x 2420' m II: 2430' x 2430' m IJ: 2440' x 2440' m IK: 2450' x 2450' m IL: 2460' x 2460' m IM: 2470' x 2470' m IN: 2480' x 2480' m IO: 2490' x 2490' m IP: 2500' x 2500' m IQ: 2510' x 2510' m IR: 2520' x 2520' m IS: 2530' x 2530' m IT: 2540' x 2540' m IU: 2550' x 2550' m IV: 2560' x 2560' m IW: 2570' x 2570' m IX: 2580' x 2580' m IY: 2590' x 2590' m IZ: 2600' x 2600' m JA: 2610' x 2610' m 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QU: 4620' x 4620' m QV: 4630' x 4630' m QW: 4640' x 4640' m QX: 4650' x 4650' m QY: 4660' x 4660' m QZ: 4670' x 4670' m RA: 4680' x 4680' m RB: 4690' x 4690' m RC: 4700' x 4700' m RD: 4710' x 4710' m RE: 4720' x 4720' m RF: 4730' x 4730' m RG: 4740' x 4740' m RH: 4750' x 4750' m RI: 4760' x 4760' m RJ: 4770' x 4770' m RK: 4780' x 4780' m RL: 4790' x 4790' m RM: 4800' x 4800' m RN: 4810' x 4810' m RO: 4820' x 4820' m RP: 4830' x 4830' m RQ: 4840' x 4840' m RR: 4850' x 4850' m RS: 4860' x 4860' m RT: 4870' x 4870' m RU: 4880' x 4880' m RV: 4890' x 4890' m RW: 4900' x 4900' m RX: 4910' x 4910' m RY: 4920' x 4920' m RZ: 4930' x 4930' m SA: 4940' x 4940' m SB: 4950' x 4950' m SC: 4960' x 4960' m SD: 4970' x 4970' m SE: 4980' x 4980' m SF: 4990' x 4990' m SG: 5000' x 5000' m SH: 5010' x 5010' m SI: 5020' x 5020' m SJ: 5030' x 5030' m SK: 5040' x 5040' m SL: 5050' x 5050' m SM: 5060' x 5060' m SN: 5070' x 5070' m SO: 5080' x 5080' m SP: 5090' x 5090' m SQ: 5100' x 5100' m SR: 5110' x 5110' m SS: 5120' x 5120' m ST: 5130' x 5130' m SU: 5140' x 5140' m SV: 5150' x 5150' m SW: 5160' x 5160' m SX: 5170' x 5170' m SY: 5180' x 5180' m SZ: 5190' x 5190' m TA: 5200' x 5200' m TB: 5210' x 5210' m TC: 5220' x 5220' m TD: 5230' x 5230' m TE: 5240' x 5240' m TF: 5250' x 5250' m TG: 5260' x 5260' m TH: 5270' x 5270' m TI: 5280' x 5280' m TJ: 5290' x 5290' m TK: 5300' x 5300' m TL: 5310' x 5310' m TM: 5320' x 5320' m TN: 5330' x 5330' m TO: 5340' x 5340' m TP: 5350' x 5350' m TQ: 5360' x 5360' m TR: 5370' x 5370' m TS: 5380' x 5380' m TT: 5390' x 5390' m TU: 5400' x 5400' m TV: 5410' x 5410' m TW: 5420' x 5420' m TX: 5430' x 5430' m TY: 5440' x 5440' m TZ: 5450' x 5450' m UA: 5460' x 5460' m UB: 5470' x 5470' m UC: 5480' x 5480' m UD: 5490' x 5490' m UE: 5500' x 5500' m UF: 5510' x 5510' m UG: 5520' x 5520' m UH: 5530' x 5530' m UI: 5540' x 5540' m UJ: 5550' x 5550' m UK: 5560' x 5560' m UL: 5570' x 5570' m UM: 5580' x 5580' m UN: 5590' x 5590' m UO: 5600' x 5600' m UP: 5610' x 5610' m 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Technical Advantages: Comparison between Deep-Explor® and Traditional Solutions



Deep-Explor is the only company in China capable of **remotely detecting mines** at a depth of 2,000 meters and oil and gas deposits at 8,000 meters underground **with precision**, using satellites and **in a non-intrusive manner**.

Example Comparison: Mineral Resource Exploration in an Area of 1,000 km²

	<ul style="list-style-type: none"> Integrated technologies of engineering of geological exploration 	<ul style="list-style-type: none"> Integrated technologies oil and gas exploration 	<ul style="list-style-type: none"> Deep-targeted ultra-weak nuclear magnetic resonance AI digital technology Explore
Accuracy Rate	< 20%	< 50%	> 80%
Exploration Time	5-7 years or more	2-3 years or more	<ul style="list-style-type: none"> Remote exploration: 2-3 months In situ exploration: 2-3 months
Conventional exploration depth	0-500 meters	0-5000 meters	0-8000 meters
Cost risk in the detailed exploration phase	about 80%		< 15%



More precise



More efficient



More in-depth



Minor risk

either

We must promote industrial innovation with innovation scientific and technological, especially with the technologies disruptive and cutting-edge to give birth to new industries, new models and new engines of development, and develop the new quality productivity.
 -- Excerpt from the speech by General Secretary Xi Jinping at the eleventh collective study session of the Politburo of the Twentieth Central Party Commission in January 2024.

Industrial cases



Part 03

As of April 2025, Deep-Explor has established cooperative relationships with more than 30 clients, including listed companies, centralized state-owned enterprises and several private mining companies, having completed more than 30 projects in total.

Domestic customers are distributed across provinces and autonomous regions such as Shandong, Hebei, Shanxi, Shaanxi, Sichuan, Gansu, Guizhou, Inner Mongolia, Xinjiang and Tibet, while overseas services have been provided in 6 countries and regions in Asia, Africa, Oceania and South America.

Industrial Cases: Global Customer Distribution and Applications



Our service clients include listed companies, centralized state-owned enterprises, and private companies, and the projects implemented span the country and abroad.

Industrial Case:

Polymetallic Mine in Hebei: Copper and Lead Detection

Context of Project

The client obtained exploration rights in 2007 and mining rights in 2014, with 3.06 million tons of ore discovered. During the following decade, it made continuous and significant investments in the project.

In 2019, he appointed us to carry out the detection using ultra-weak nuclear magnetic resonance satellite technology equipped with Artificial Intelligence.

Conditions of Exploration

Designated area, with independent verification

Deadline

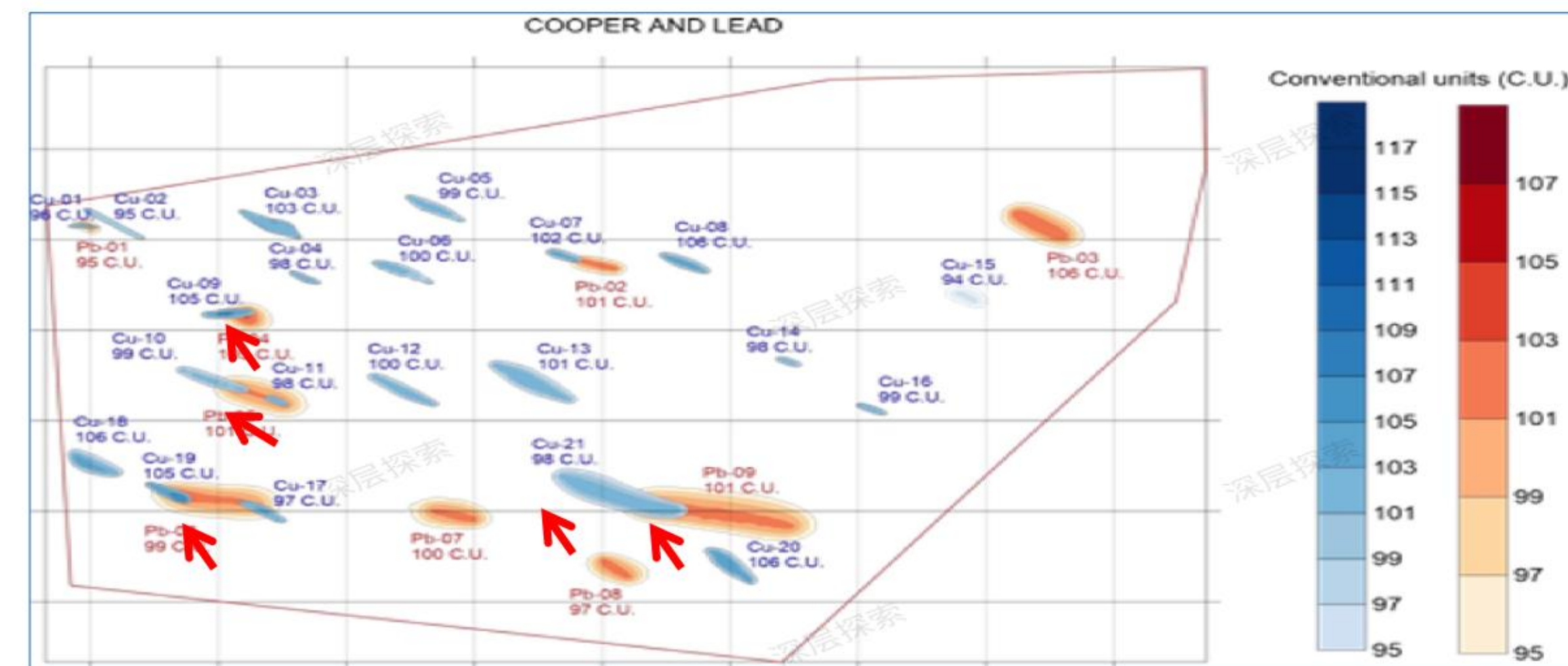
July 10, 2019 – August 19, 2019

Implementation

21 potential copper anomalous zones and 9 potential lead anomalous zones were detected;

Results of the Project

Starting from the **original reserves of 3.06 million tons** of ore, the amount of ore after validation is expected to exceed **10 million tons**, drastically increasing the economic value in the short term.



Industrial Case:

Metal Mine in Inner Mongolia - Gold Detection

Context of Project

The client, owner of a gold mine in Inner Mongolia with
 After more than 20 years of operation, it allocated 120 million yuan.
 in three consecutive years to increase reserves and extend
 leaf. life or til of the

In 2019, we were appointed to carry out the detection through
 ultra-weak nuclear magnetic resonance satellite technology
 loaded with Artificial Intelligence.

Conditions of Exploration

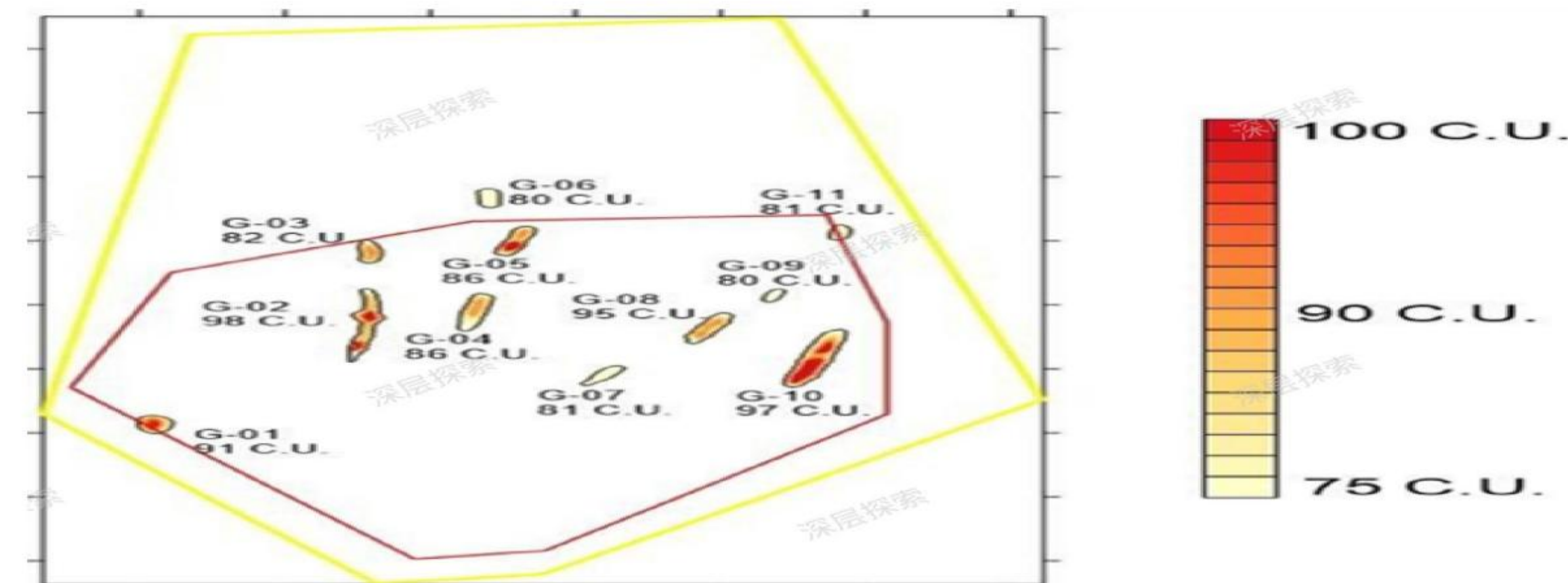
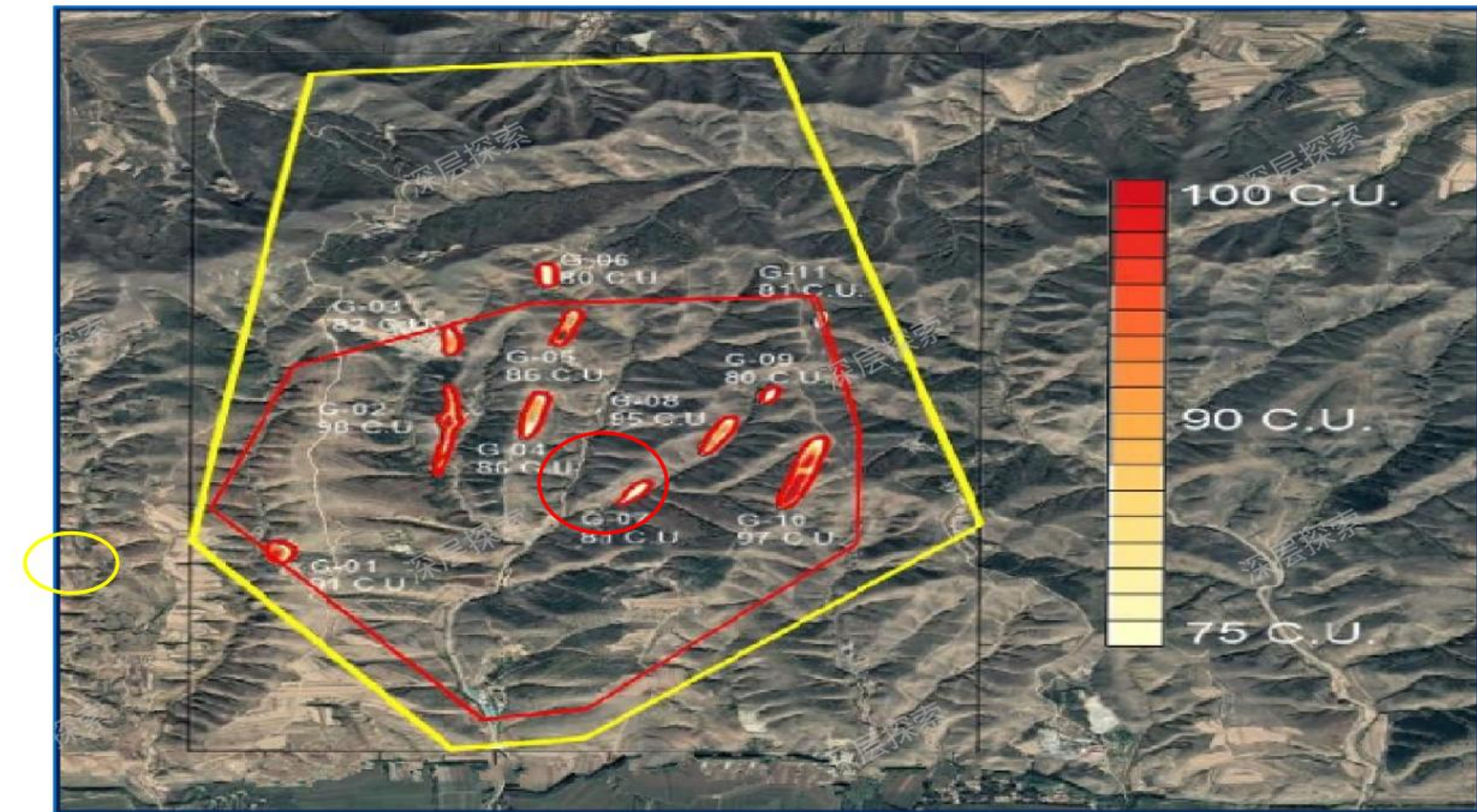
The surface of the area is covered by silty sandstones
 yellow.

Deadline Implementation

November 28, 2019 – January 10, 2020

Results of the Project

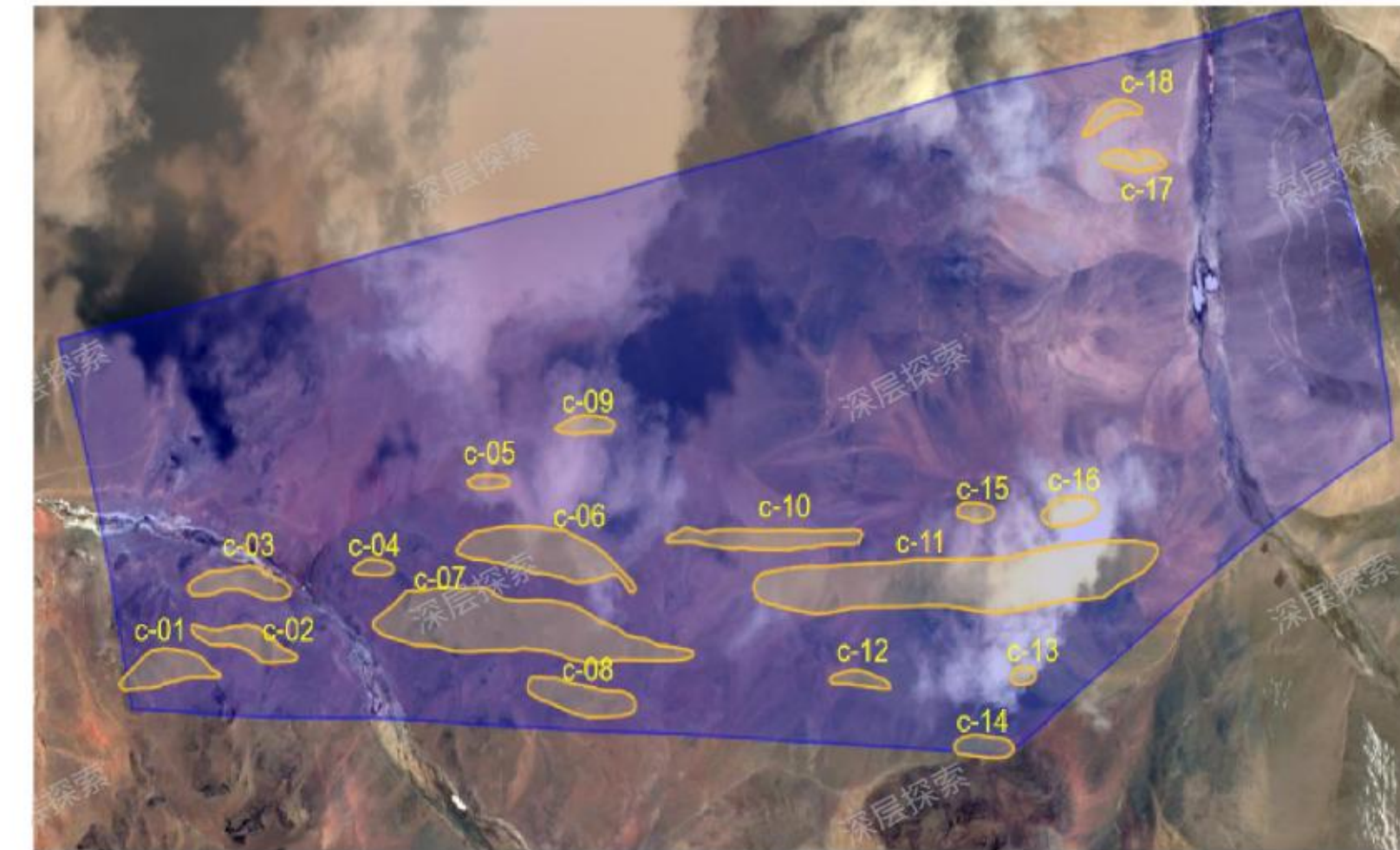
Based on this, after a detailed exploration
 Subsequently, gold reserves increased in
 approximately **5 tons**, which is expected to prolong the life
 useful of the mine for **more than 10 years**.



Industrial Case: Metal Mine in Tibet: Copper Detection

Context of Project

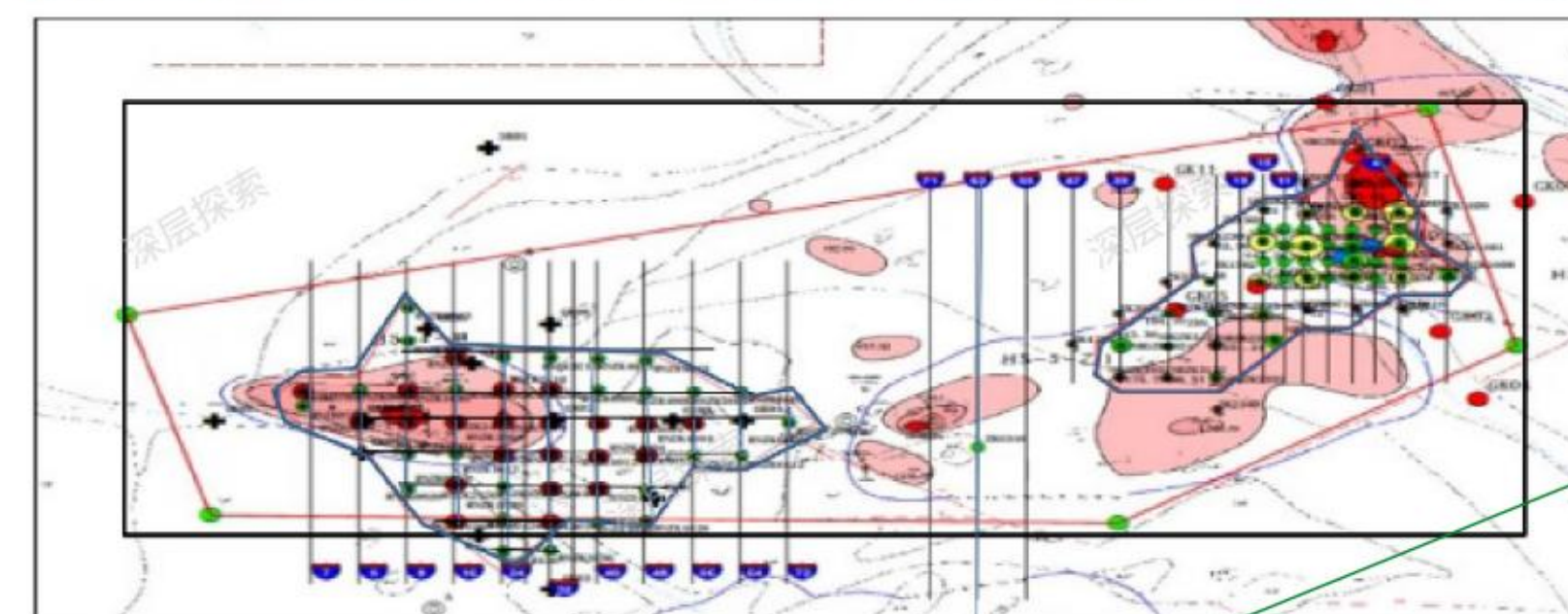
This project, located in the Ali Region of Tibet, was developed by a central state-owned enterprise that used various detection technologies to explore the area for nearly 20 years. To date, more than 10 million tons of metal have been detected and confirmed, making the mine China's largest copper deposit.



Deep Results -
Explor: Distribution of Anomalous Copper Zones

Conditions of Exploration

Average altitude of approximately 5,000 meters above sea level, designated area of 10 km², complex geological conditions, harsh geographical and climatic conditions, fragile ecology; independent verification.

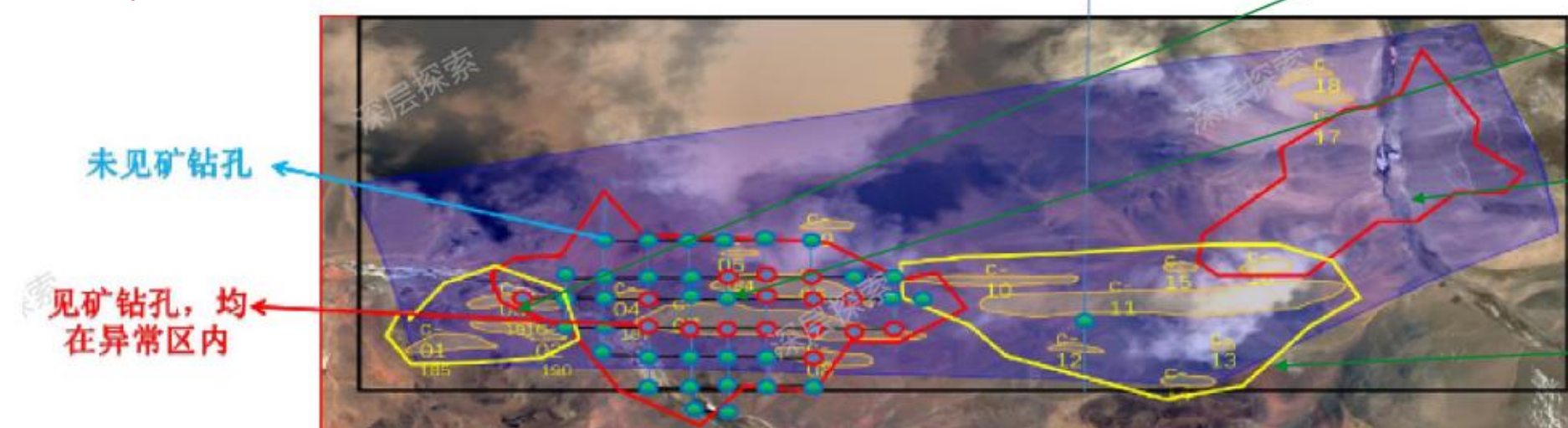


Deadline Implementation

April 16, 2022 - June 26, 2022

Results of the Project

After more than two months of work, **18 anomalous zones were detected**, with an estimated increase of approximately 10 million tons of copper metal. **The overall economic value of the mine doubled, exceeding one trillion yuan.**



- Area Anomaly 1
- Area Anomaly 2
- Area Anomaly 3
- Area Anomaly 4

Industrial Case:

Polymetallic Mine in Inner Mongolia: Detection of Copper, Gold and Nickel

Context of Project

The client obtained the prospecting right in 2009 and, after years of investment, was unable to obtain valuable resource data; subsequently, the prospecting right area was repeatedly reduced from 12.86 km² to 4.98 km².

In 2021, he appointed us to carry out the detection using ultra-weak nuclear magnetic resonance satellite technology loaded with Artificial Intelligence.

Conditions of Exploration

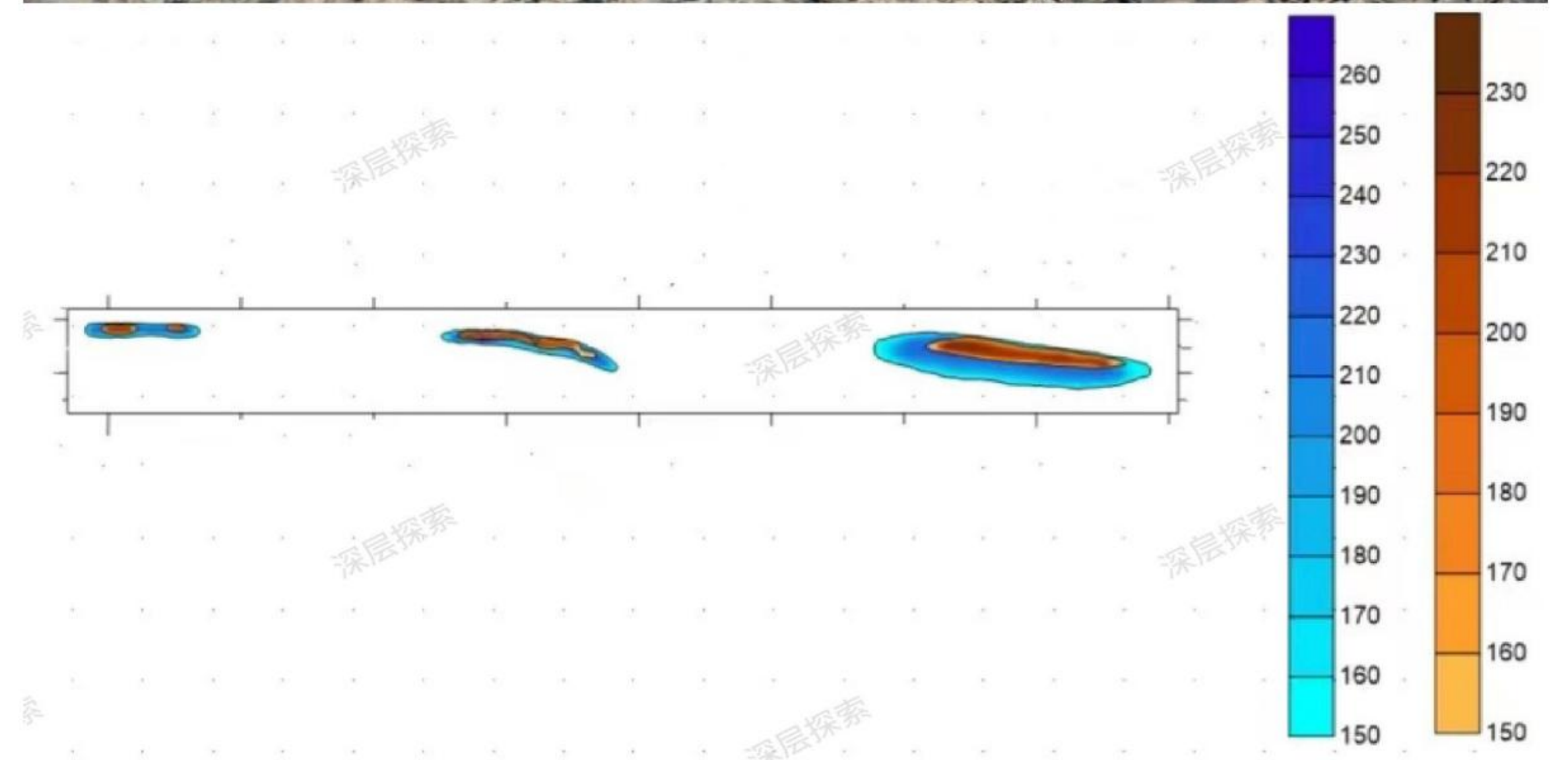
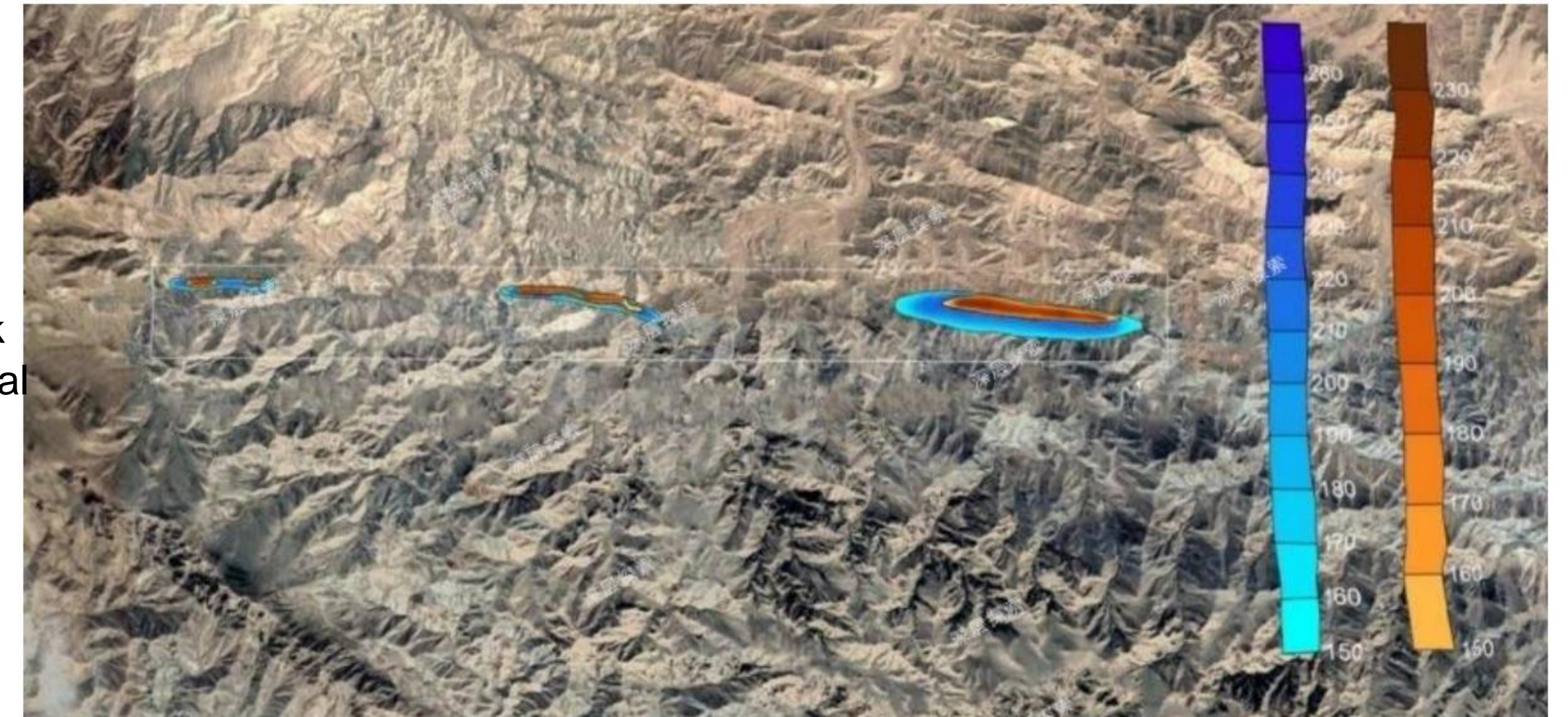
This region is covered by sandstone and has no outcrops on the surface.

Deadline Implementation

August 20, 2021 – October 15, 2021

Results of the Project

Four potential gold anomalous zones and **three potential copper anomalous zones** were detected, with an estimated deposit depth ranging from **130 to 460 meters**. No valuable nickel anomalous zones were identified within the detection area.



Industrial Case:

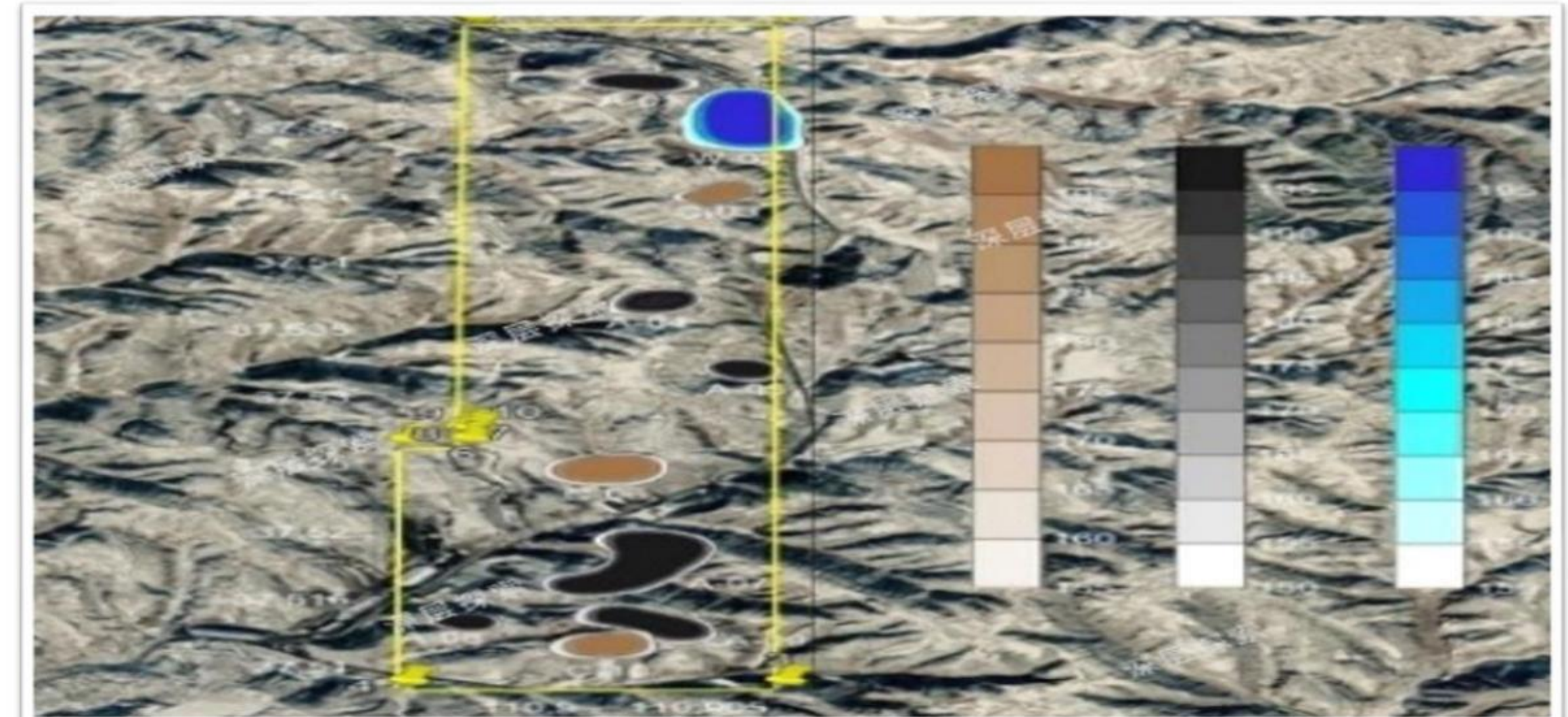
Mine in Shanxi: Detection of Coal, Aluminum, Methane and Groundwater

Context of Project

In early 2022, in collaboration with the University of Taiyuan Technology, we take over the prospecting service in a region of Shanxi. The target areas are two blocks with areas of 5.22 km² and 6.12 km² respectively, and the resources explored include four types: coal, aluminum, methane, and water.

Conditions of Exploration

The blocks of 5.22 km² and 6.12 km²:



Deadline Implementation

January 16, 2022 - February 26, 2022

Results of the Project

Nine anomalous zones were detected in the two target areas. **aluminum potentials and 6 anomalous potential carbon zones.** We especially highlight the discovery of an anomalous area of groundwater with an estimated depth between 550 and 650 meters, and dimensions of 600 m × 350 m. In the range of No valuable anomalous methane zones were identified during detection.



Industrial Case:

Metal Mine in Shandong: Gold and Copper Detection

Context of Project

The concession for prospecting a gold mine in Shandong It was about to win, but the previous surveys did not They identified a mineral body of scale.

In 2020, we were assigned to carry out the detection using ultra-weak nuclear magnetic resonance satellite technology loaded with Artificial Intelligence.

Conditions of Exploration

An area of 5 km²

Deadline Implementation

January 15, 2020 – March 15, 2020

Results of the Project

Two anomalous gold zones and one anomalous copper zone were detected . with an approximate depth of **700 meters**. It was judged that They are **small in size and have great depth, with resources insufficient, so it was initially determined that they do not have high economic value for exploitation.**



Industrial Case: Metal Mine in Guinea (Africa): Gold Detection



Context of Project

A national mining company acquired a gold prospecting concession in Guinea, but due to the COVID-19 pandemic, Chinese experts were unable to travel to the site to conduct fieldwork.

In 2021, he assigned us to carry out detection using satellite nuclear magnetic resonance technology loaded with Artificial Intelligence.

Conditions of Exploration

Geological features such as vegetation cover and the "iron rubble" layer:

Deadline Implementation

June 25, 2021 - August 15, 2021

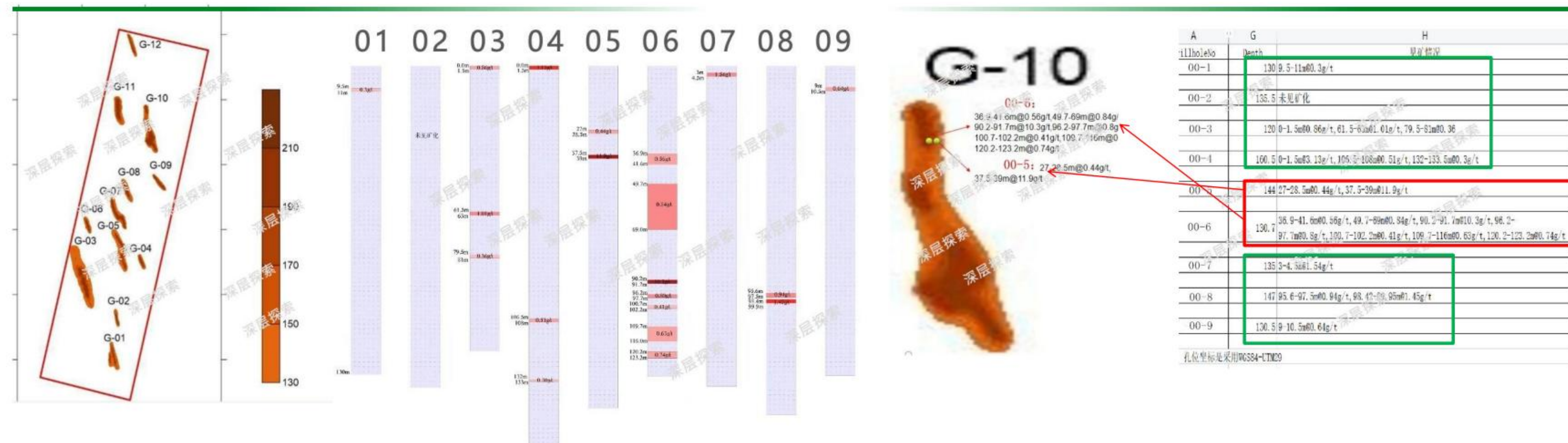
Results of the Project

Using multiple exposure techniques, repeated iteration and reinforced information processing, **12 potential anomalous gold zones** were extracted, with an estimated depth between 30-150 meters.

Drilling in these areas confirmed the presence of gold in different grades through rock core data, with the most productive well revealing up to seven layers of ore body.



Profile of the Phenolite Layer in the Mining Zone





Deep-Explor®

Thank you THANKS SERVING

Deep Explor (Beijing) Technology Co., Ltd.

Beijing Deep Leader Innovation Intelligence Technology Co., Ltd.

yyyyyyyyyyyyyyyy

Application of the new generation of comprehensive mineral exploration and prospecting

technology based on artificial intelligence (AI)

yyyyyyyyyyyyyyyy

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