

BOTSWANA
RES

EXPLORE INTERPRET DISCOVER

COMPANY PROFILE



ADVANCING **EXPLORATION** THROUGH INTERPRETATION AND INNOVATION



RES serves the global mining and exploration industry through the analysis, design and execution of early and advanced stage mineral exploration projects across Africa.

Directed by a responsive and highly experienced management team, guided by world leading technical expertise and underpinned by streamlined operational capabilities, we ensure our staff are empowered and suitably trained to adapt to any conditions. This flexibility allows them to swiftly respond to any challenges, reducing expenditure and optimising our clients' exploration capacity.

REMOTE EXPLORATION SERVICES

has, for more than two decades, actively undertaken mineral exploration work across Africa and around the World, from the depths of the Danakil depression to the jungles of Gabon, the salt pans of Namibia and the ice lakes of Alaska.

SERVICES

As one of the largest independent exploration consultancies in Africa, RES has a proven track record of implementing discovery driven, exploration solutions for both multinational mining companies as well as listed and private junior exploration companies.

RES has direct experience and world class expertise in running all aspects of exploration from green fields projects in remote locations to advanced brown field projects on established mine sites.

We pride ourselves in our ability to offer a comprehensive suite of services designed to meet the needs of our clients. Our range of services span from complete turnkey exploration management solutions through to specific R&D initiatives.



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EXPLORATION

Planning, implementing and executing end - to - end exploration projects, flexible to client needs.

CONSULTING

Consulting services and solutions performed across the full geological spectrum.

LABORATORY

Field XRF Analysis, exploration sample management as well as Kimberlite indicator mineral picking and analysis.

MARINE

Marine Geophysical Surveys and Services, project and operational management as well as marine resource evaluation.

FIELD EXPLORATION



Exploration Survey Design and Planning



Soil Geochemical and Heavy Mineral Surveys



Ground Geophysical Surveys



Geological and Structural Mapping



Exploration Project Management



Drill Management, Logging and Sampling



Field Camp Management



SHEC Management



Radonx™ Uranium Survey



CONSULTING



Survey Design and Planning



Data Compilation, QAQC & Review



Geophysical Data Processing / Interpretation



Remote Sensing (Regolith Mapping)



Regional Exploration Targeting



Property Evaluations



Mineral Systems Analysis



Competent Person Reports (Markets)



Mineral Resource Estimation



Research and Development










Orientation Studies



Training and Course Development



LABORATORY

-  **Field XRF Analysis**
-  **Exploration Sample Management**
-  **Kimberlite / indicator Mineral Picking and Analysis**
-  **Data Review, QAQC**
-  **Data Interpretation**
-  **Reporting**
-  **Petrography**



MARINE

-  **Marine Project Management**
-  **Marine Geophysical Services and Surveys**
-  **Marine Resource Evaluation**
-  **Marine Mining Operation Management**
-  **Evaluation of Marine and Alluvial**

RadonX™

RadonX™ is an uranium exploration tool offered by Remote Exploration Services and is a refinement of the Radon-on-Activated-Charcoal (ROAC) technique developed by the South African Atomic Energy Corporation in the 1970s. Differing from commonly used alpha-sensitive radon detection techniques, RadonX™ measures the gamma radiation arising from radon daughter products, which provides a highly effective means of detecting radon release and hence the ability to detect potential uranium resources at depth.

<https://bit.ly/3bKEKK0>

READ MORE

OUR APPROACH

RES brings together an experienced team of exploration geologists and geophysicists with expertise in project evaluation, data compilation and interpretation, exploration targeting, drill program management, remote logistics, camp design and construction, marine exploration, data management, geological modelling, GIS and community engagement.

We have intentionally expanded our offerings from the ground up starting with the basics of collecting quality geological, geochemical and geophysical data in some of Africa's most remote regions, through to advanced processing integration and interpretation, including project generation.

We nurture a commitment to excellence, which ensures that we employ the latest and most appropriate technology on projects, have an unfaltering dedication to practicing good science, maintain a safety record that is exemplary, manage logistics seamlessly and maintain administration that is accurate and appropriate.



OUR WORK

We have both a strong operational competency and high-end technical capability which is underpinned by our experienced team of geoscientists and operations personal. We own vehicles and equipment necessary to run both large camps on established projects, as well as mobile camps in remote areas.

Our detailed inventory of geological and geophysical equipment and high-end software allows for the collection, processing and interpretation of quality exploration data that is discovery focused.

In addition, our offering also includes sample processing and analysis.

We adhere to strict health and safety standards and respect the environment and communities we interact with which is reflected in our documented policies and operating procedures and have successfully operated for more than 15 years across Africa in some of the most challenging terrains possible.

XPOTENTIAL



Xpotential, RES' dedicated geophysical consulting team, specialises in the interpretation and modelling of potential field data including; magnetic, gravity, gravity gradient, IPDC and electromagnetic. These interpretation products are significantly expanded through the inclusion of input from structural geologists, economic geologists and remote sensing specialists within the group,.

This approach is particularly significant for target generation where a Mineral Systems Analysis type approach based on applicable deposit styles to generate prospectivity maps is often applied. Results are visualised in a 3D environment providing the framework for a geologically driven interpretation of geophysical data.

XPOTENTIAL SERVICES

OUR SERVICES INCLUDE:

- Geophysical modelling and inversion
- 3D integration of geological and geophysical data
- Basin modelling using potential field inversions constrained by geological mapping, seismic and well data
- Integrated geological and geophysical interpretation and target generation
- Customised target generation using mineral systems approaches
- Remote sensing processing and interpretation

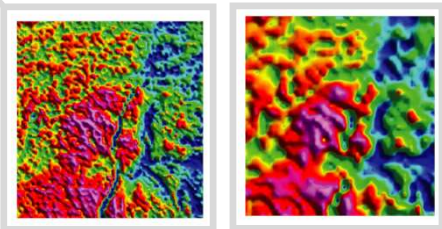
GEOPHYSICAL EXPERTISE

RES has the high-end technical capabilities, the field equipment to implement professional, safe and efficient ground geophysical programs over brownfield exploration targets related to Iron and Manganese mineralization.

Our Geophysicists have the knowledge and expertise to offer a complete consulting package from survey design and conception to high level interpretation and integration of a wide variety of ground, airborne and other geophysical datasets using cutting edge computing technology.



WHY HIGH RESOLUTION GEOPHYSICS?



- High Resolution gravity data allows for significant improvement on structural interpretation and ore body delineation.
- Allows for the identification of near surface features.

APPLICATIONS

- Delineation of dense bodies associated with iron and manganese mineralisation
- Mapping structures and identifying conductive structures which could potentially act as Fractured Rock Aquifers
- Hazard mapping: Identification of potential karst / sinkhole features



GEOPHYSICAL CAPABILITIES



- Ground Magnetic Surveys
- Ground Gravity Survey
- Resistivity
- Induced Polarisation (IP)
- Frequency and time domain electromagnetics (EM)
- Controlled source audio frequency magnetotellurics (CSAMT)
- Natural source audio frequency magnetotellurics (NSAMT)
- RadonX™

GEOPHYSICAL CAPABILITY STATEMENT

PROCESSING and INTERPRETATION

- Full processing, inversion and interpretation of a wide range of geophysical datasets, including airborne regional data and ground survey data.
- Integration of multidisciplinary datasets, for example geochemical and geological datasets.
- Target generation based on contextual interpretation of geophysical data.

METHOD	SOUTH AFRICA	LESOTHO	NAMIBIA	BOTSWANA	MOCAMBIQUE	ANGOLA	ZAMBIA	KENYA	GABON	GHANA	LIBERIA	SIERRA LEONE	ETHIOPIA	CANADA
TDEM	Fe, H2O	Di	U, PGE										H2O	
FDEM	FRA		U	PGE		Di								
Resistivity			Cu, REE	Cu, Ni	Au	Di								
IP			Au, Cu, REE	Cu, Ni, Mn	Au	Di								
NSAMT	V					Di								
CSAMT														
Magnetics	REE, Fe, Di, H2O, V	Di	Di, Cu, REE, Au	Di, Cu, Mn	Au	Di	Di	Au	Au	Au		Di		
Gravity	Fe, PGE, Cav, H2O	Di	Di, REE, Fe	Di, Mn		Di	Di, Cu		Ni, Cu		Fe			
Radiometrics	REE		REE											
SQUID	Pb, Zn													
GPR	Cav		REE											
Side Scan Sonar	Di													
Swathe Bathymetry	Di													
Shallow Seismics	Di													
Radon X	U		U				U							U

KEY

Di Diamonds **Ni** Nickel **U** Uranium **REE** Rare Earth Elements **PGE** Platinum Group Elements **EM** Time-domain Electromagnetics
Cu Copper **Au** Gold **FDEM** Frequency-domain **IP** Induced Polarisation **NSAMT** Natural Source Audio-frequency Magnetotellurics



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