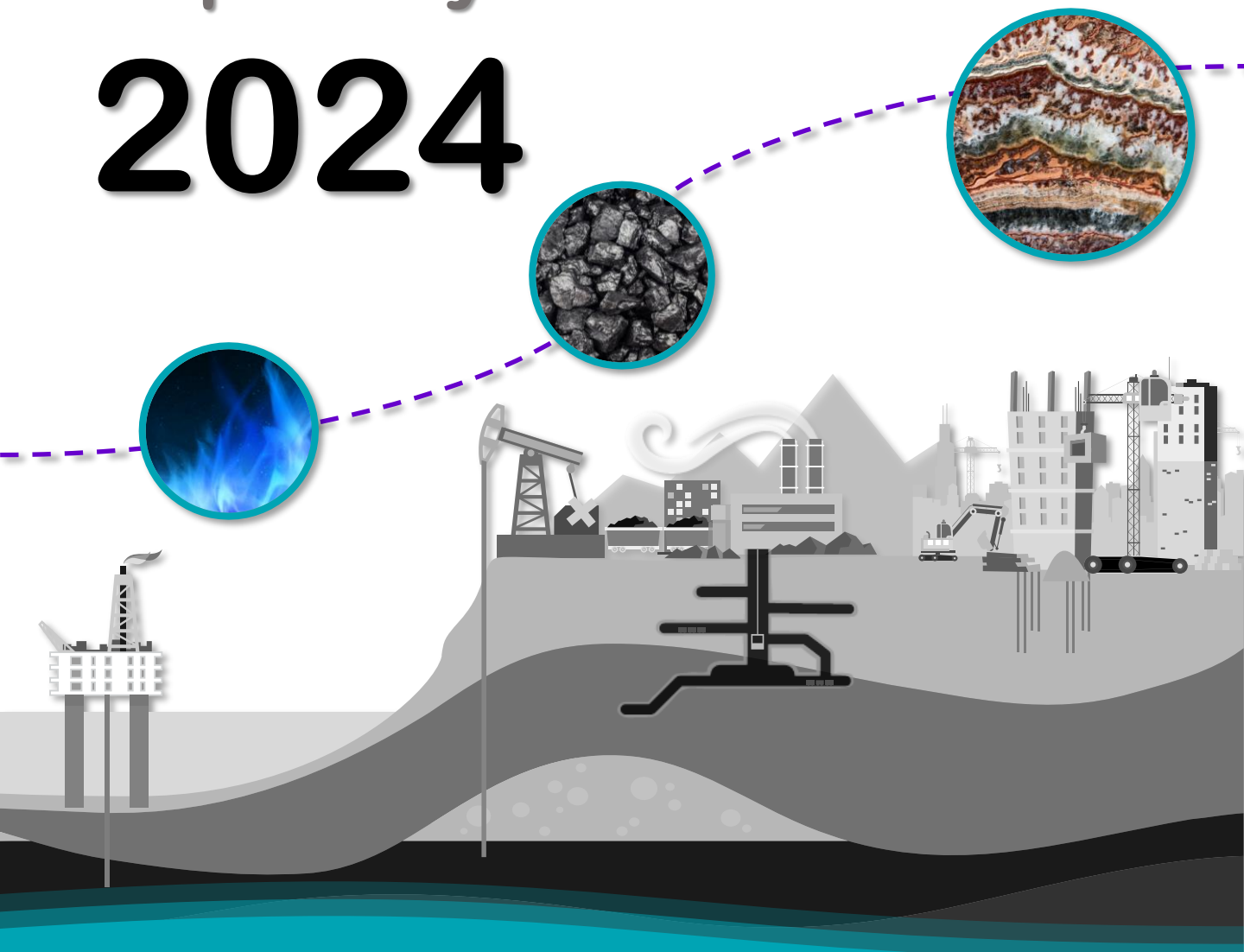


Excelsior Energy

Company Overview & Capability Statement

2024



Managing tomorrow's energy, mining
and construction projects

Our business

Excelsior Energy provides today's energy, mining and construction industries with an extensive range of options for tomorrow's projects.

Our products are suited for and used in conventional Oil & Gas, Coal Mining, Mineral Mining and Construction applications. These products are fully supported with appropriate manpower and additional general services such as Project Management, Supply Chain Management and Product Development.

From the technical planning phase of your project, through to project completion, we believe we can help you make the right decision for your project, with all our solutions aimed at ensuring exploration, development and operation of the world's resources is conducted in a safe and sustainable manner.

Excelsior Energy Who we are



We are a consulting company with a strong focus on the alternative, emerging and transitional energy markets and mining and construction industries.

When first starting operations in Australia in October 2020, our main focus was on the development and manufacturing of custom tooling to suit niche applications in the energy sector.

Since then, the company has expanded its portfolio and reach to include an extensive suite of products and services alongside its tool development and global supply chain divisions.



We have established a strong position in emerging exploration and development operations in Mongolia, as well as providing dedicated rock testing options for the construction industry.

Excelsior Energy prides itself on being able to provide turnkey project management services through its extensive supply chain network and pool of experienced staff.

Our worldwide customers are currently serviced from the company's registered offices in Brisbane, Australia, and Ulaanbaatar in Mongolia.



Reshaping the industries we work in

Our core values

Honesty & Transparency

What we think and what we say is what we mean and what we do. We will always provide authentic feedback in all our engagements with all our stakeholders.

Diligence

Every job we perform, we perform with the utmost diligence. Internally, we employ a very rigorous quality assurance methodology by verifying our work in multiple independent steps. Moreover, we expect our suppliers and partners to do the same.

Professionalism

Reliability, adaptability and loyalty to our clients and suppliers is our main driver. Exhibiting exceptional work ethic to our customers and suppliers means everything to us.



Trusted

By our customers & partners alike



**Honesty & Transparency,
Diligence and Professionalism**

Our team

Our management team

From our clients' perspective, the old adage "it is not what you know, but who you know", is certainly true when it comes to Excelsior Energy's people.

Our team boasts an impressive array of relevant industry experience and knowledge, with each team member contributing to the company's overall success.

With a Bachelor's degree in Information Technology and Project Management and a Master's degree in Engineering/Industrial Management, company founder **Michael Siefert** has already left a big impression on the resources industry during his 15 years' working for a number of energy service companies around the world.

Similarly, our Mongolian CEO and local entrepreneur **Mandukhai Nanzad**, following completion of her Bachelor's of Business Administration degree, has made significant inroads into paving the way for females in the Mongolian energy industry and steering Excelsior Energy's Mongolian business.

An expert in the various development and commercialisation stages of technology used in well production optimisation and automation, **Stefan Federling**, as the company's Technology Manager with a degree in Manufacturing from one of Austria's prime Industrial Colleges and over 15 years' Oil & Gas experience, can be relied upon to find the right solution for any technical problem we are asked to solve.

Complementing our senior management team, we can depend on the knowledge and experience of our Mongolian Business Development Manager **Basaanbat Davaadorj**. Together with our operational and office support staff he assists our management team looking after the needs of our stakeholders and employees by driving the business forward and ensuring we and our customers can achieve those vital, all important business and ESG goals.

*Michael
Siefert*



*Mandukhai
Nanzad*



*Stefan
Federling*



*Basaanbat
Davaadorj*



**Our people are our biggest asset
as they are the company**

Our ESG goals

Environment, Social & Governance (ESG) goals are not simply ambitions we talk about to our customers and suppliers. Our ESG goals form the backbone of our company and dictate how we run our business.

Our commitment to the environment

To ensure we make the world a better place, so it remains a place worth living in, we strive to instill the need for sustainable development and use of the world's resources. While we aim to align our corporate goals with the ESG goals of our customers, we will always stay true to our own core values.

Our commitment to safety

We take the health and safety of employees, subcontractors and clients very serious. As such, we have set ourselves the goal of maintaining ZERO harm to the people, environment and equipment involved in our operations. We aim to achieve this by ensuring all involved adhere to our strict HSE policies and procedures, which are fully conformant with appropriate industry standards and practices.

Our commitment to fair work

- Fair work means that our employees are secure in their job.
- Fair work means that our employees will be protected from discrimination and harassment.
- Fair work means that our employees have equal opportunities, irrespective of their race, gender, religion or other characteristics.
- Fair work means that our employees are treated with dignity and respect and have a voice in their workplace.

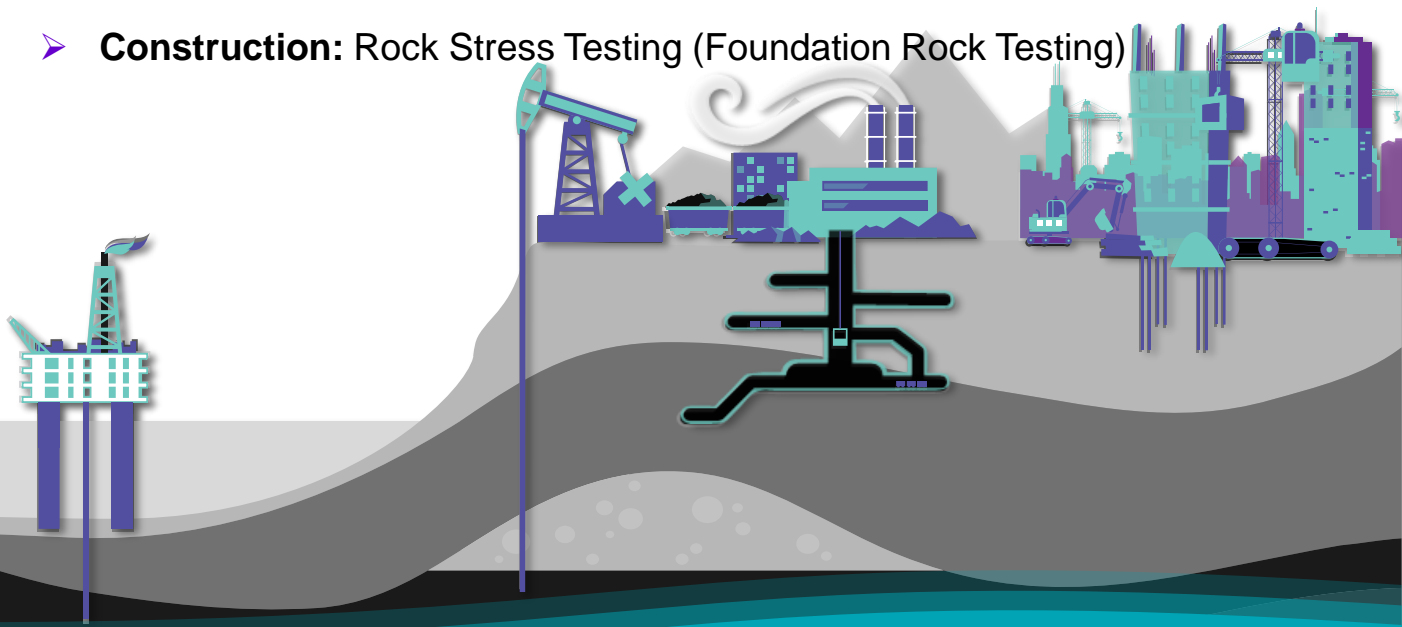


Environment, Social & Governance goals
are not just words we speak, we live it

Our products & services

With a robust process driven project management methodology, we pride ourselves on offering our clients industry turnkey solutions, including:

- **General Services:** Project Management, Supply Chain Management
- **Product Development:** Mechanical Engineering, Mechanical Drafting, 3D Prototype Printing
- **Oil & Gas:** Well Engineering, Permeability Testing, Stimulation Testing, Wellsite Representatives
- **Coal Mining:** Water Drainage Testing, Methane Emissions Testing, Groundwater Testing
- **Hard Rock/Mineral Mining:** Rock Stress Testing, Caprock Integrity Testing, Hydraulic Pre-Conditioning, Rock Burst Mitigation
- **Leech Mining:** Hydraulic Formation Pre-Conditioning, Propagation & Fall Off Testing
- **Water Reservoirs:** Production Testing, Pump Sizing, Dam Wall Stress Testing
- **Construction:** Rock Stress Testing (Foundation Rock Testing)



Quality driven services and products

Products

In addition to our extensive range of services, we offer a variety of sales and rental equipment options.

Being able to provide our customers with fit-for-purpose solutions is our ultimate goal. As such we are always on the lookout for additional products and services we can add to our offering.

Equipment Sales

Artificial Lift Systems

- Progressive Cavity Pumps (PCP)
- Rod Lift Pumps (RLP)

Well Construction

- Casing
- Casing Accessories
- Cementing Accessories

Mining Products

- Grout Free Expandable Standpipes
- Impression Packers

Workshop Tooling

- Pneumatic/Hydraulic Floor Pipe & Casing Vice

Well Completion

- Flow Control Devices
- Packer Systems
- Tubing

Well Control

- API6a Wellheads
- API16 Blow Out Preventers (BOP)
- Mineral Drilling Diverter Systems

Equipment Rental

Well Workover Equipment

- Rod Handling Equipment
- Tubing Handling Equipment
- Wellhead Installation Equipment

Testing Equipment

- Pressure Test Equipment

Contact our sales team for your specific equipment requirements

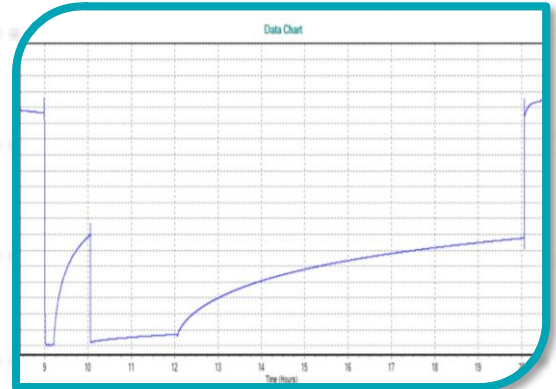
Our flagship service

Drill Stem Testing

Drill Stem Testing is the most conventional form of formation testing to determine formation pressure, skin, and fluid flow characteristics, where wells are being allowed to produce water, gas or oil from the target zone.

Testing is performed by exposing the formation to controlled depressurised environments, encouraging flow from the formation. Subsequent shut in periods measure and record recovery periods.

Resulting data sets are analysed by Reservoir Engineers and Hydro Geologists to calculate reservoir permeability and forecast production rates.



Industry application:

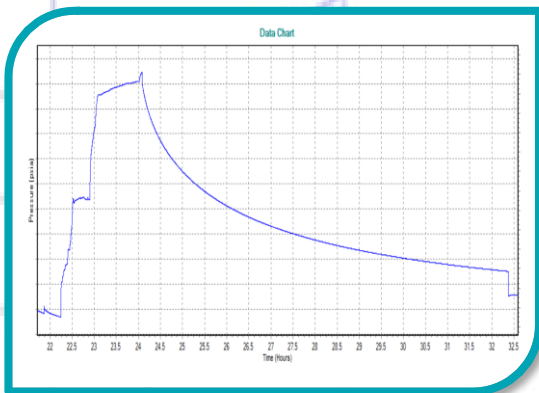
- Oil & Gas exploration
- Coal Mining
- Water Well drilling

Injection Fall Off Testing

Injection Fall Off Testing (IFOT) is an alternative test methodology to determine formation pressure, skin, and fluid flow characteristics where Drill Stem Testing is operationally not possible.

During an IFOT, a fluid is injected at a predetermined flow rate, pressure and time interval as designed by Testing Engineers. The testing parameters are based on offset well data, expected application envelopes and test objectives.

A subsequent fall off period similarly monitors and records the pressure fall off period, during which the formation absorbs the residual pressure from the injection period. Reservoir Engineers and Hydro Geologists can derive formation permeability and limited forecast production rates.



Industry application:

- Oil & Gas exploration
- Coal Mining
- Pre-Production Leech Mining

Versatile testing options across industries

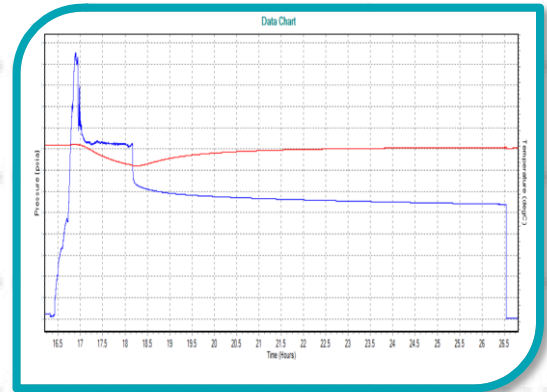
Drill Stem Testing (DST)

Diagnostic Fracture Injection Testing

Diagnostic Fracture Injection Testing (DFIT) is a test methodology to determine fracture and formation parameters, including fluid efficiency, fracture closure pressure (or minimum in-situ stress), fluid leak-off coefficient and fracture gradient, transmissibility, fracture half-length, skin and initial formation pressure.

Similar to IFOT, a fluid is injected at a higher pressure gradient to induce fracture openings for a period of time and measure volume of fluid absorbed.

Subsequent shut in periods monitor and record fracture closure pressures. Data sets analysed by Well Engineers, Mining Engineers and Civil Engineers will provide invaluable information for hydro stimulation planning and risk mitigations.



Industry application:

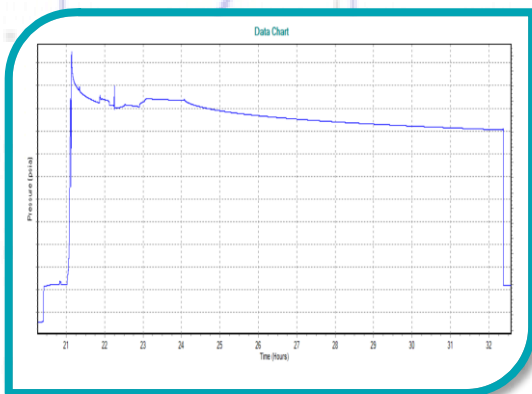
- Oil & Gas
- Hard Rock Mining
- Geotechnical
- Construction

Hydro Stimulations

Hydro Stimulations utilise subsurface tools to isolate specific target zones with straddle or off bottom configurations to pre-condition or stimulate target formations with high pressure water.

Stimulations are usually planned after DFITs to increase productivity of target formations through controlled break down rock integrity.

Applications usually require large volume fluid mediums injected under high constant pressure for a pre-determine period of time as modelled by Reservoir and Mining Engineers.



Industry application:

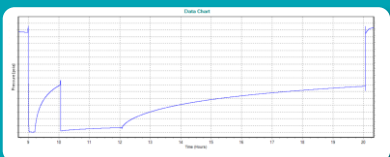
- Coal Mining
- Hard Rock Mining
- Pre-Production Leech Mining

Extensive application envelope

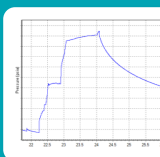
Formation Testing & Stimula

Test Type
Industry Applications

Drill Stem Testing (DST)



Injection Test (IT)



Oil & Gas

➤ Permeability Testing

➤ Permeability Testing



Coal Mining

➤ Water Drainage Testing
➤ Methane Emission Testing

➤ Interference Testing



Hard Rock / Mineral Mining



Leech Mining

➤ Propagation Testing



Water Reservoirs

➤ Production Testing (Pump Sizing)

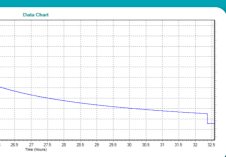


Construction

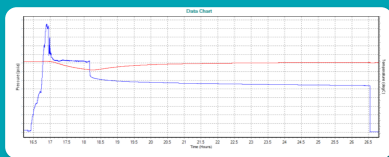
Let our highly experienced staff help you

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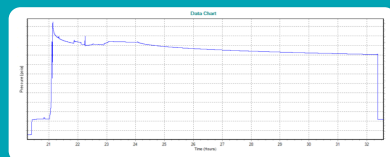
on Fall Off Testing (FOT)



Diagnostic Fracture Injection Testing (DFIT)



Hydro Stimulation (HS)



ity Testing

➤ Stimulation Testing

ce Testing

➤ Coal Drainage Stimulation

➤ Cap Rock Integrity Testing

➤ Hydraulic Pre-Conditioning

➤ Rock Stress Testing

➤ Rock Burst Mitigation

on Fall Off

➤ Hydraulic Formation
Preconditioning

➤ Water Dam Wall Stress
Testing

➤ Rock Stress Testing
(Foundation Testing)

u design and execute your test program



excelsior
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