



# Geo Drilling Services

We are here to explore the Future and make it in your hand.

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## We Are Here To Serve.

Geo Drilling Services is a water drilling company based in Cairo, Egypt with a wealth of experience in drilling boreholes. GDS are well placed to serve clients private water supply and water well drilling needs. Our aim is to provide quality, clean water and boreholes that can be well maintained and long lasting.

Most of project management and key operation teams have more than 20 years' experience in both oil and water fields in different countries, such as Egypt, Iraq, Kuwait, UAE, Libya, Turkey and Congo. Our team of Geologists, Hydro-geologists, Engineers and Maintenance staff make use of the best available technology to keep control over costs while delivering excellent service.

All of our highly trained staff is committed to a flexible hand on approach; paying the closest attention to the needs and always providing a professional service.

The company was established with the objective of offering quality services in the field of ground water exploration and provides clean water services in the most efficient and ethical manner while aiming to actively contribute to the improvement of people's lives and livelihoods. A clean water supply is essential for a healthy population. While a reliable water supply would go a long way to sustainable economic development in agriculture and livestock hence eradicating poverty especially in the rural areas not forgetting the industrial part of it which highly depends on water. The company policy statement is developed with a major objective of ensuring to meet the Millennium Development Goals (MDGs).

Geo Drilling Services have completed more than 300 turnkey water wells. The well depth is from 100m to 1300m. The hole size of aquifer is from 8½" to 20". The water yield from 60m<sup>3</sup>/h to 1000m<sup>3</sup>/h. Our professional project organization, excellent drilling technology and HSE management are highly praised by clients and gain the good market reputation.

## Geo Drilling Services Footprint Maps





## **Vision**

Strive to be the famous, first class integrated underground water Exploration and drilling services provider in the Middle East market.

## **Mission**

- To promote a culture of outstanding quality service and to be recognized as an industry leader.
- To insist on the health and safety of our employees and the protection of the environment.
- To listen and respond to our customers and exceed their expectations.
- To provide job opportunity locally, contribute to development local economy.

## **Core Values:**

GDS Core Values are the basis for establishing a common culture for the company.

Our Core Values are:

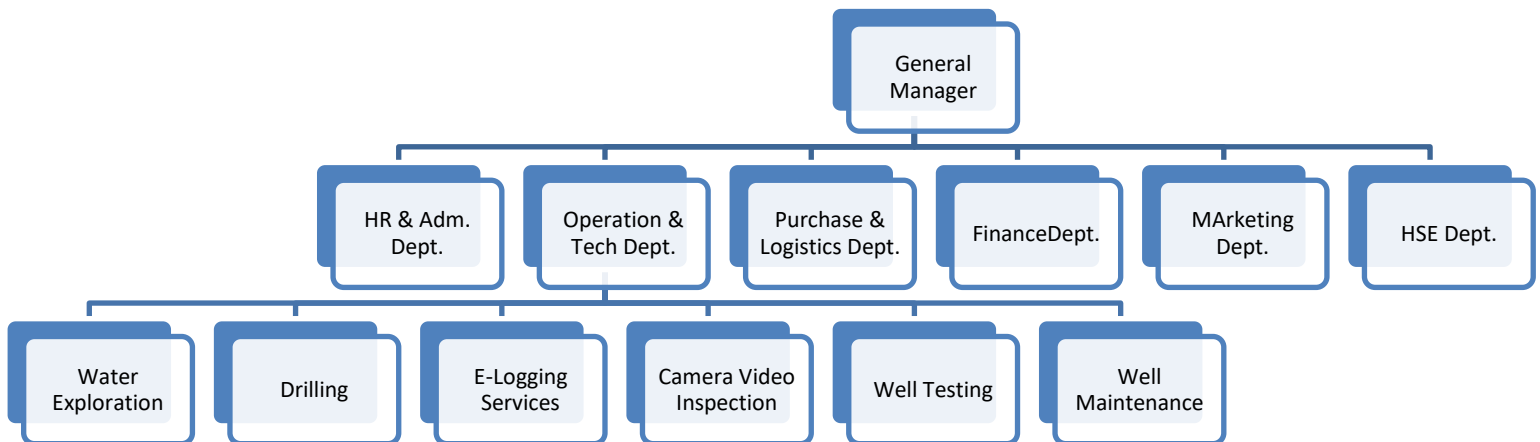
- Learning: is the way to achieve the full potential of the company.
- Project Management: Expect the best, plan for the worst, and prepare to be surprised.
- Courage: We believe courage empowers us to lead boldly and act decisively.
- Team Work: We believe teamwork leverages our individual strengths.
- Integrity: Is the foundation of our individual and corporate actions.
- Performance: Excellent performance will drive the results that differentiate us from our competitors.

## Why Choose Us?

At Geo Drilling Services, we are looking forward to the next 100 years of working side by side with our customers to continue expanding the limits of Water Resources and Water production through innovative problem-solving.

*OUR Motto is: "Don't Work hard, Work smart but also, NO Pain, No Gain".*

## Organization Chart of Geo Drilling Services



## Water Exploration

Using the recent technology available in the market, we take the water exploration to the next level trying to save time and money for the investors. Our equipment is working in high standard with regular calibration to make sure the data is 100 % accurate.

We can provide our clients with accurate Geological data, Lithology and formations, the water Potentiality and the aquifers nature, underground water salinity and Also, helping the client to choose the drilling point, Well design and drilling method to have the highest water production and lowest salinity in this area

We choose between Electric and Electromagnetic geophysical analysis according to the depth, location and purpose of the exploration to deliver the client the best service.

Using the best software and methods available in the market, especially Schlumberger' method, we provide our services up to 1000m deep and making sure the analysis result is over than 90% accurate.

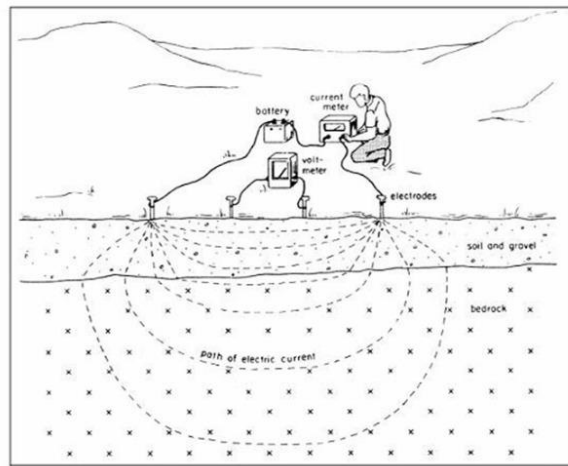
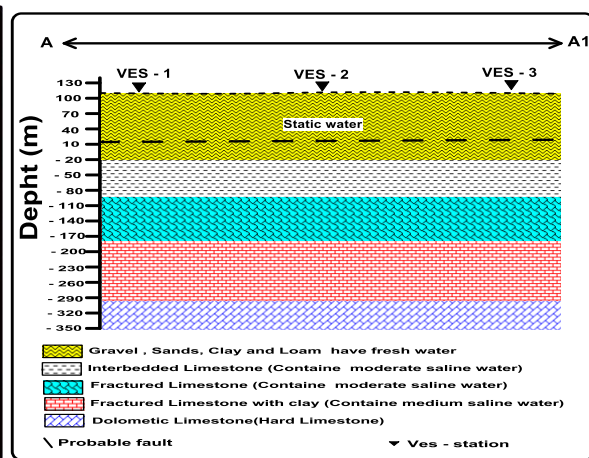
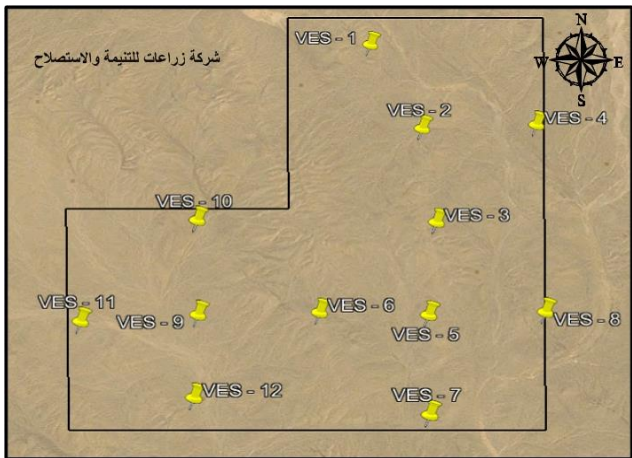


Figure 4. A conventional set-up of the earth resistivity meter geoelectrical resistivity field observations (after Robinson and Coruh, 1988).



## Drilling Water Wells

Geo drilling services owns the tools and the experience to drill wells starting from 100 m to over 1200 m.

GDS provide the market with all drilling types with latest technology available and trying to find drilling solutions to fit your situation.

Whether our clients are a commercial farmer, factory owner or a home gardener with irrigation needs, we are here to help with all water wells needs.

With our Experience, GDS has the expert team to study and decide the most efficiency way to drill your well, saving your money and time.

### **Our team is familiar with all drilling types such as:**

- Mud Rotary drilling
- Blind drilling.
- Air foam drilling.
- Casing packers
- Drilling with percussion

***We will expertly design effective water well to provide the needed water for your business.***





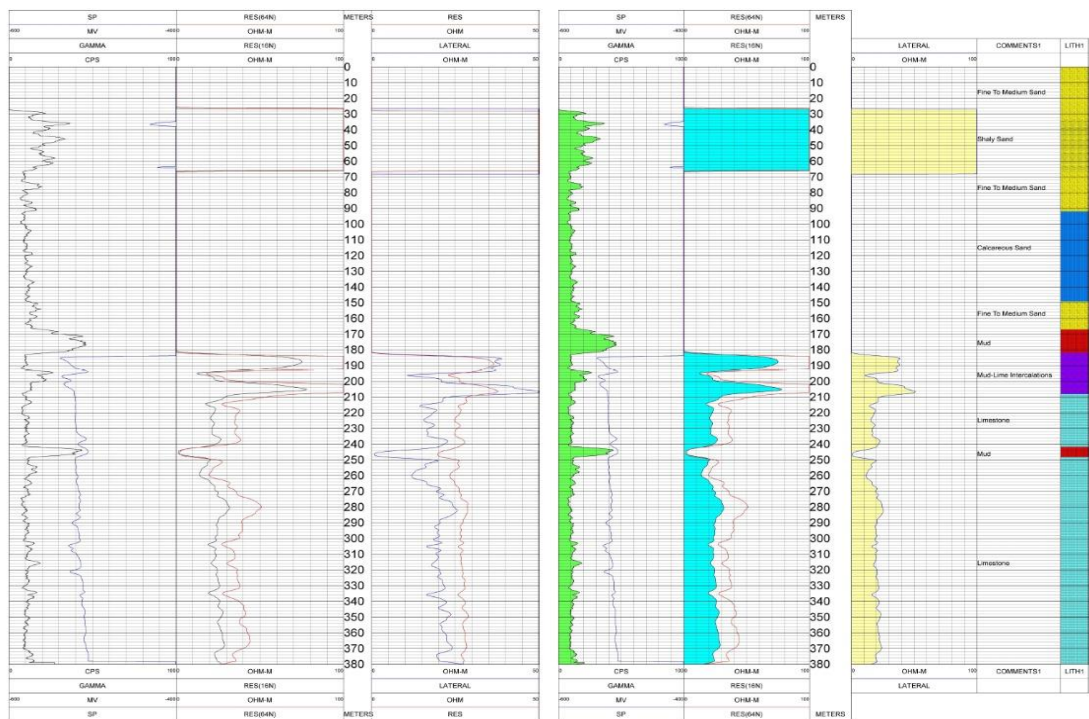
## Well Logging

As you drill new wells in more complex and less familiar formations, well logging tools can help you safely and efficiently collect critical downhole information. The Geo Drilling Services wireline conveyance service combines field-proven technology, modeling, processes, and best practices in a total system approach.

Working with our logging experts, you get access to safe, cost-effective deployment options for logging tools in your most complex well environments.

Our Logging trucks is fully equipped and ready to log your well with our qualified team to help you identify the formations, water potentiality, water salinity and produce the final log with the best well design

Professional logging team, equipped with KH-3 digital logging unit, the scope of survey including: SP, GR, TEMP, and RES with various borehole size. The maximum logging depth is 1500m.



## Camera Video Inspection

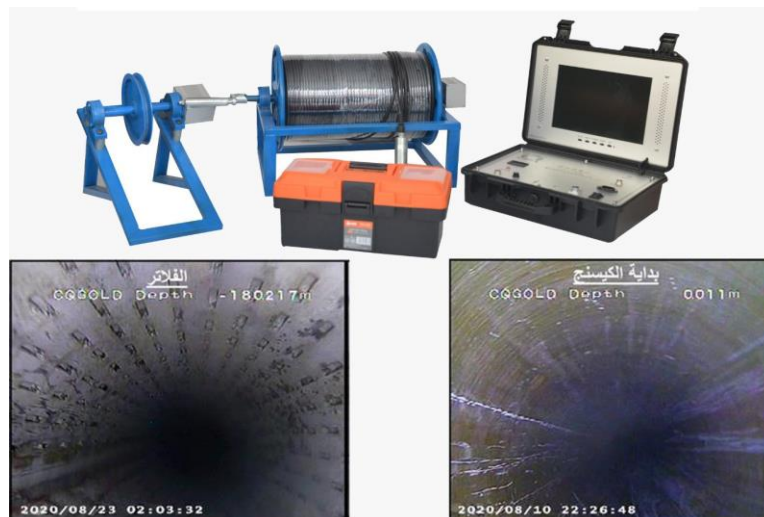
*When a visual inspection is required inside the well, Geo drilling services came with the solutions.*

### **GYGD-IV Panoramic borehole inspection camera with:**

- High-definition imaging,
- Side-view rotation scanning partial high-definition video function,
- Video recording, panoramic image capture of key parts of pipe.
- Down hole view with radial tilt and zoom.
- Auto focus and iris with manual override .
- Selectable LED light intensity to enhance picture clearly.
- Accurate measurement of pipe joints and pipe wall cracks.
- Apply for vertical, slant hole, Maximum depth: 0-2000m.

### **We help our Clients to minimize operating costs and maximize production by:**

- Ascertaining the condition of the boreholes.
- Identifying causes of reduced flow.
- Pinpointing problem areas of deterioration, infiltration, casing and screen damage.
- Eliminating unnecessary pump wear and repair cost.
- Determine the actual depth of the well.
- Determine the actual well design of the old wells.



## Pumping Test

Geo Drilling Services provides several options for doing pumping test by choosing the right submersible pump which is suitable for our Client well for doing the experiment, taking the risk on us to give him the final result which helps to choose the right submersible pump type with the right ability and the best production rate to save your well life to long without increasing the salinity of water or burning the submersible pump.

Professional software is applied to calculate the aquifer characteristics.

The screenshot displays the 'NoName - AquiferTest' software interface. The left sidebar contains navigation options like 'Pumping Tests', 'Discharge rates', and 'Water level measurements'. The main window is divided into several sections:

- Project Information:** Includes fields for Project Name (Coral Super), Project No. (1), Client (Coral Super), and Location (Miyaz).
- Units:** Shows settings for Site Plan, Dimensions (m), Time, Discharge (US gallon), Transmissibility (m/s), and Pressure (psi).
- Pumping Test Details:** Lists Name (Pumping Test 1), Performed by (Ahmed), and Date (2018/12/26).
- Aquifer Properties:** Shows Thickness (m) and Type (Fracture).
- Data Table:** A table with columns for Pump Date, Time (h), Water level (m), and Drawdown (m). It lists data for 29 different pumping test events.
- Graph:** A plot of Drawdown (m) versus Time (h), showing a curve that rises sharply and then levels off.



## Well Maintenance

Geo Drilling Services provide contracts for regular water wells maintenance to ensure adequate water flow.

GDS is following the best schematic procedures to make sure that you well come alive. Using the perfect tools and well trained team, we study our client well situation first before starting the procedures to avoiding losing our clients time and money.

### **Our Standard procedures:**

1. Discovering the well situation first and its design using the CAMERA VIDEO and make sure that the well is safe and no screen or casing corrosion or damage.
2. Putting the perfect plan for well maintenance with OUR TEAM.
3. Cleaning the well with BRUSH and removing the contamination.
4. Using chemicals to solve the clay and mud contamination.
5. Re-developing the well using AIR COMPRESSOR.
6. Re- Doing the CAMERA VIDEO to see the result.
7. Doing PUMP TEST to have new information about the right flow rate and the aquifers properties.



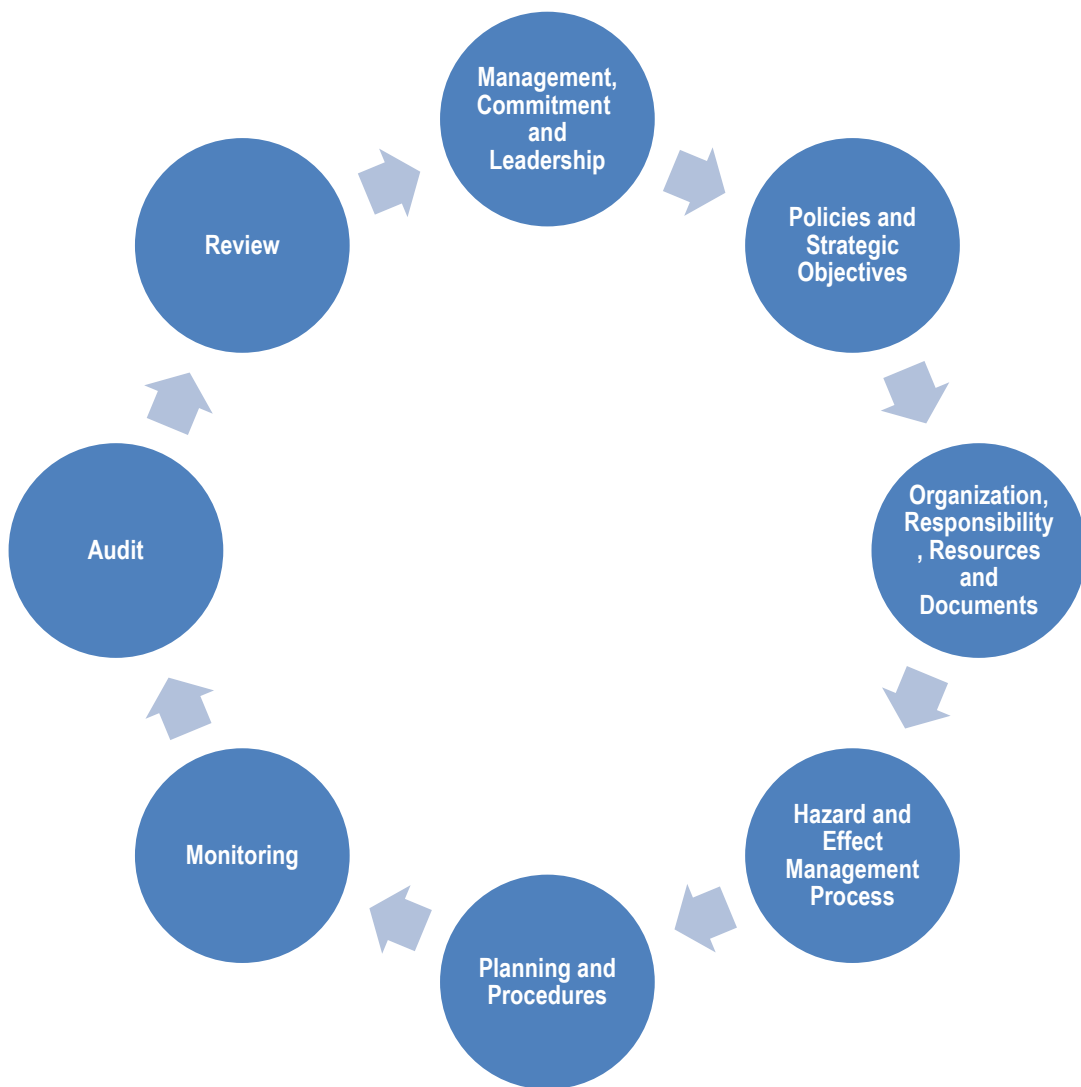
## Special drilling technology

To increase the well production and save the client farm construction cost. Advanced technology was applied for drilling operation using Air Foam Drilling Technology. Geo Drilling Services drilled 26" hole in West Minya project to allow the client to install large electrical submersible pump. The water production reached 1000 m<sup>3</sup>/hour.



## QHSSE standard system

QHSSE Department of Geo Drilling Services Gives intensive care to promote and apply the world-wide standard occupational health, safety and security regulations in all the Departments of the company, Also Applying the quality system in order to document all the required data as a history and evidence also to insure the work done is follow the quality categories.



## Cooperation and development concept

- To provide professional, efficient, first-class comprehensive services for Exploration and drilling water wells in Middle East and Africa regions.
- Invest in agriculture and other business; explore a variety of business and development.
- Focus on commitment to customer, integrity management.
- Flexible and diverse modes of cooperation with local partner.

*With the full support of our experience, In the spirit of innovation, truth-seeking, sincere, excellence of development, GDS positively face all the market opportunity and challenge. We'd like to cooperate with all the clients, partner in the Middle East and Africa market to achieve a win-win business.*

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