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**GSE Energy Industry and Trade Limited Company**  
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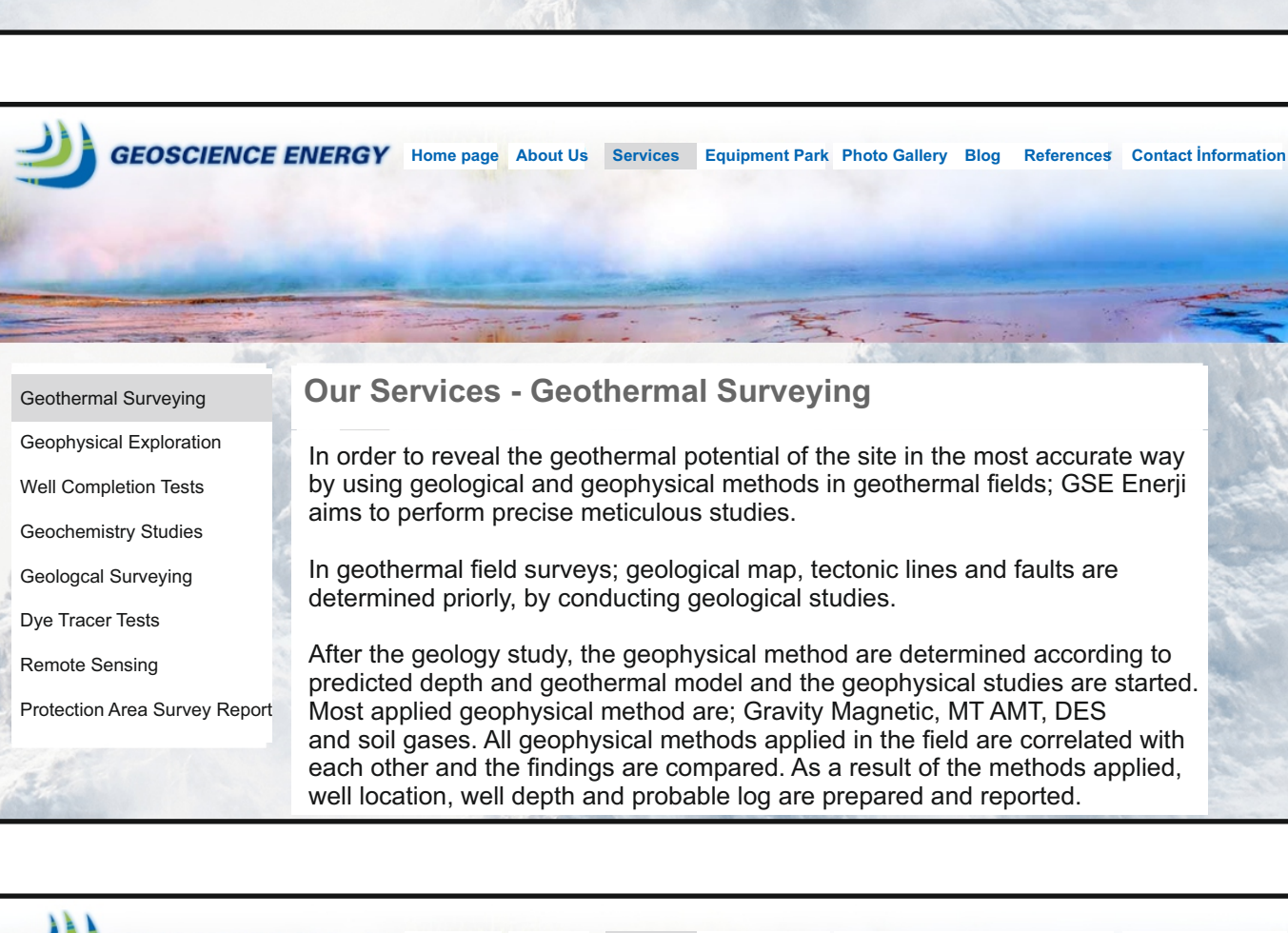
## About Us

Our company was established in 2009 to serve in the geothermal and mining sector.

GSE ENERGY aims to prepare feasibility reports by conducting field geology, geophysical surveys and geothermal surveys in geothermal fields, and to provide rapid and economic solutions to our customers by identifying drilling locations in the field in the light of the data obtained from the field surveys.

In geothermal fields, we operate at all stages starting from the geological evaluation of the site to the production wells. In all these works, we realize with our own devices and tools. Our company has the enough equipment park, knowledge and experience to carry out all geological and geophysical studies to be applied in geothermal fields. In order to serve you better, we implement our equipment and applications by following latest scientific facts.

## Services



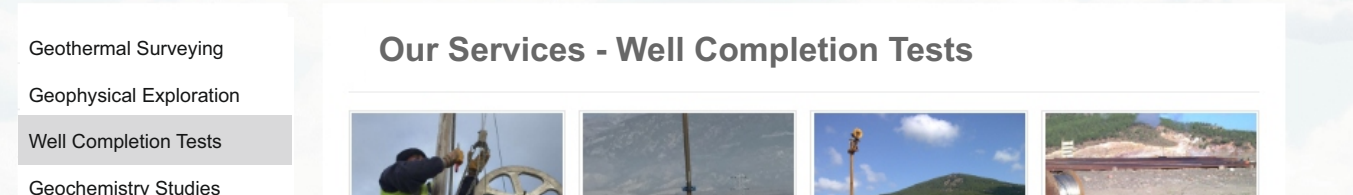
## Our Services - Geothermal Surveying

In order to reveal the geothermal potential of the site in the most accurate way by using geological and geophysical methods in geothermal fields; GSE Enerji aims to perform precise meticulous studies.

In geothermal field surveys; geological map, tectonic lines and faults are determined priority, by conducting geological studies.

After the geology study, the geophysical method are determined according to predicted depth and geothermal model and the geophysical studies are started. Most applied geophysical method are; Gravity Magnetic, MT AMT, DES and soil gases. All geophysical methods applied in the field are correlated with each other and the findings are compared. As a result of the methods applied, well location, well depth and probable log are prepared and reported.

## Our Services - Geophysical Exploration

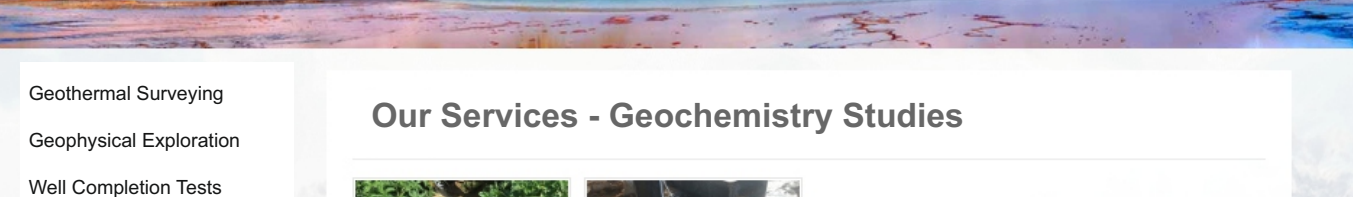


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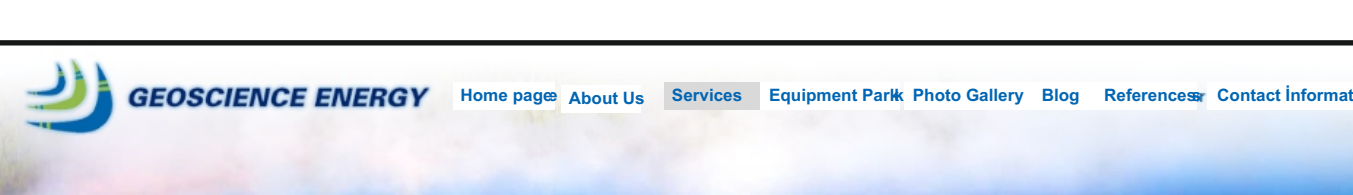
## Our Services - Well Completion Tests



## Our Services - Geochemistry Studies



## Our Services - Geological Surveying



Geological surveying performed for;

- Rocks and Minerals
  1. Understand the difference between minerals and rocks.
  2. Be able to identify common rocks and minerals.
  3. Know where and when the basic rock and mineral types form and how they are related to the hydrologic and tectonic systems.

Hydrologic System

1. Understand how the hydrologic system helps to shape the Earth and how the different sub-systems interact.
2. Learn the reasons for climate change in both ancient and modern times.

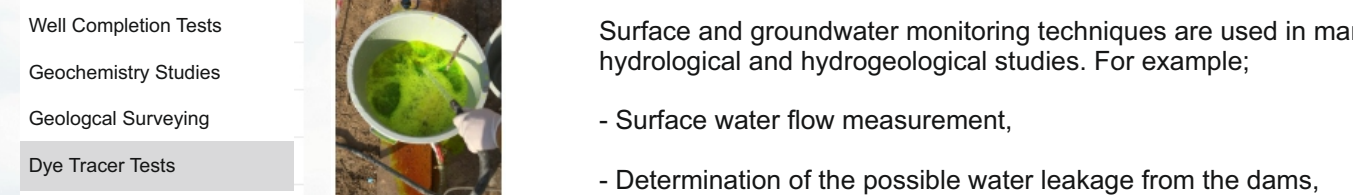
Tectonic System

1. Learn the basic evidences and ideas that support the Theory of Plate Tectonics.
2. Understand how the plate tectonic system works, including the role of the different types of plate boundaries and the forces that help to drive the system.
3. Learn how the plate tectonic system has helped to shape the Earth's surface.

Geologic Time

1. Gain a greater insight into the enormous length of geologic time and the evidences that support this claim.
2. Learn the different ways that scientists can determine geologic ages.

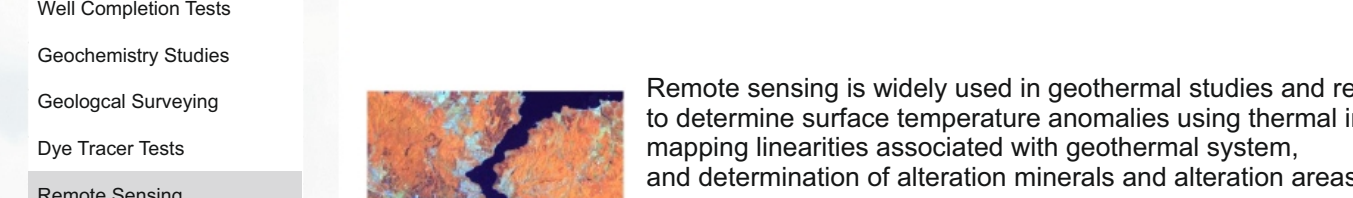
## Our Services - Dye Tracer Test



Surface and groundwater monitoring techniques are used in many stages of hydrological and hydrogeological studies. For example;

- Surface water flow measurement,
- Determination of the possible water leakage from the dams,
- Calculation of groundwater velocity,
- Determination of the groundwater or spring water recharge area,
- Determination of the source of groundwater pollutants,
- etc.

## Our Services - Remote Sensing



Remote sensing is widely used in geothermal studies and researches to determine surface temperature anomalies using thermal infrared imaging, mapping linearities associated with geothermal system, and determination of alteration minerals and alteration areas.

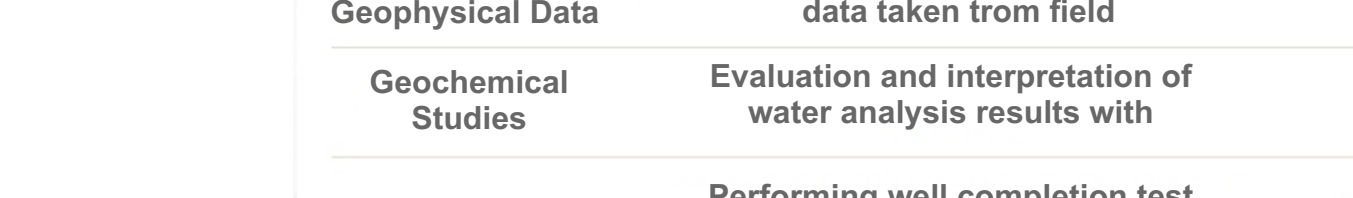
## Our Services - Protection Area Surveying

While determination of protection zone zones; both the geothermal field, these measurements are interpreted and protection zone zones are determined considering protection of reservoir.

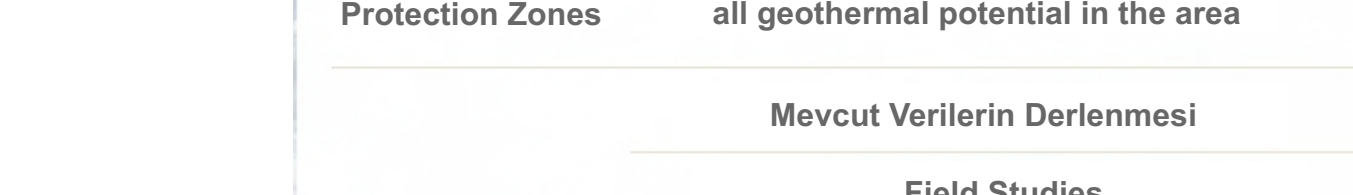
The issues listed in the table below are taken into consideration during determination of the Protected Area.

Detail Geological Survey	Preparation of Geological map
	Preparation of well logs of existing wells in the area
	Evaluation and modeling in terms of geothermal potential
	Determination of hot and cold water resources in the area
Hydrogeological Studies	Determination of drainage area
	Determination of double-reservoir and cover rock
Evaluation of Geophysical Data	Interpretation of geophysical data taken from field
Geochemical Studies	Evaluation and interpretation of water analysis results with
	Performing well completion test in existing wells
Well Completion Test	Evaluation and interpretation of test results
Determination of Protection Zones	Field study to determine protection zone borders
Mapping of Protection Zones	Determination and mapping of protected area boundaries by revealing all geothermal potential in the area
	Mevcut Verilerin Derlenmesi
Result	Field Studies
	Evaluation of Field Studies
	Preparation of Resource Protection Report

## Our Equipments



## Photo Gallery



## Some References



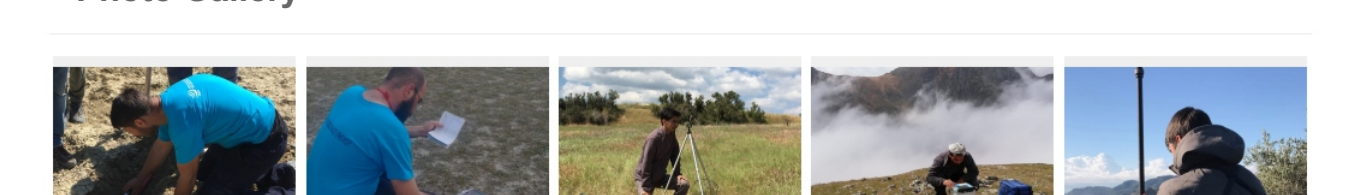
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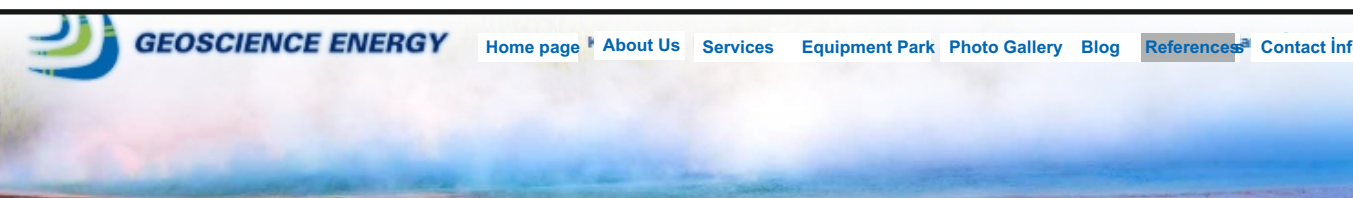
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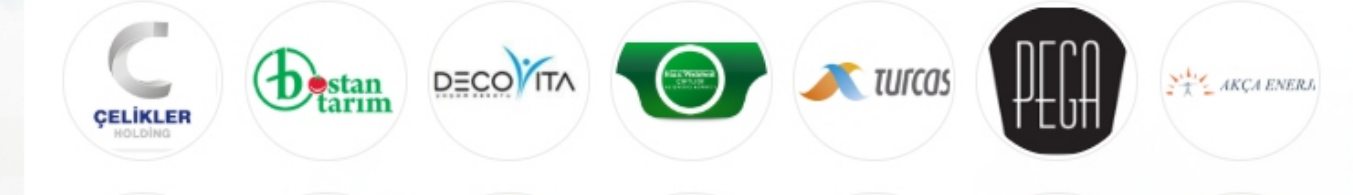
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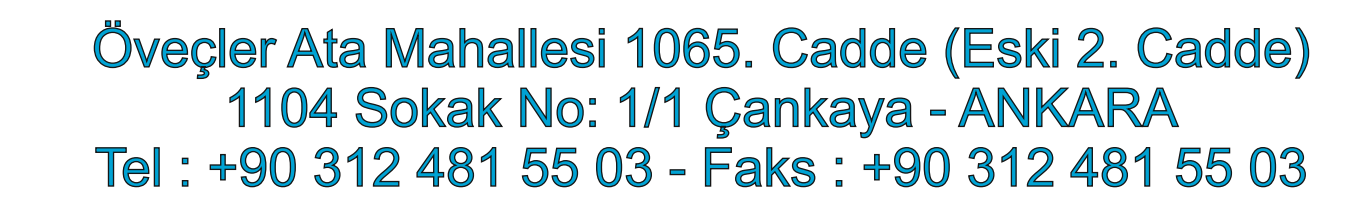
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