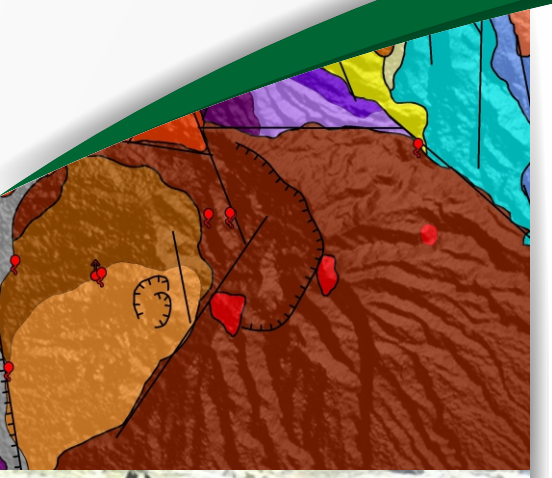
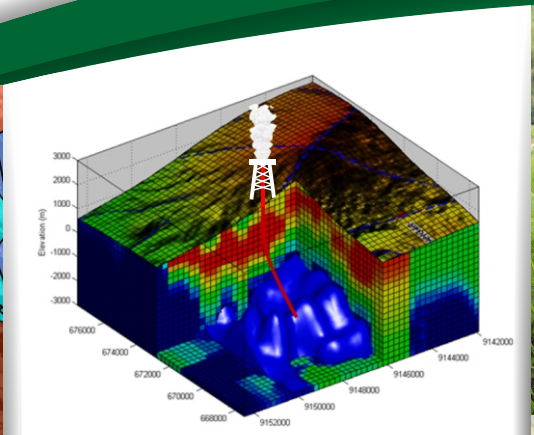
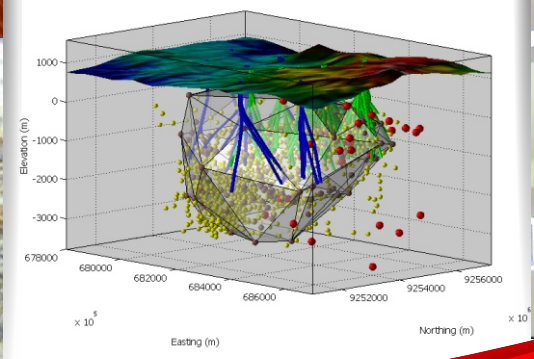
NewQuest GEOTECHNOLOGY

For Better Exploring the Earth Resources

INSPIRING - INTEGRITY - PARTNERSHIP







COMPANY PROFILE

www.newquest-geotechnology.com

INTRODUCTION

PT NewQuest Geotechnology was established in 2011. PT NewQuest Geotechnology, is a service company that present to help people for better understanding the earth resources system using proper technology. We offer services on geotechnology for exploring earth resources (geothermal, petroleum and mineral resources), solving geotechnical and environmental problems, and delivering professional training courses in mastering the concepts of earth resources and its proper related technology.

VISION & MISSION

PT NewQuest Geotechnology has vision **"To be a leading and pioneering company in providing enhanced geotechnology for helping partners in better exploring the earth resources"**.

PT NewQuest Geotechnology is committed:

- Provide enhanced geotechnology for exploring geothermal, petroleum and mineral resources.
- Provide proper geotechnology for solving geotechnical and environmental problems.
- Develop and provide softwares for helping engineers and geoscientists in better understanding the earth resources system.
- Provide better training courses in mastering the concepts of the earth resources system and the proper related geotechnology.

SERVICES

Geothermal Exploration

- Geological Mapping
  - Remote Sensing Analysis
  - Geological Mapping
  - Laboratory Analysis
- Geochemical Study
  - Geothermal Fluid Sampling
  - Laboratory Analysis
  - Geothermometry & Hydrogeology
- Geophysical Survey
  - MT-TDEM Survey
  - Gravity Survey
  - Micro-EarthQuake (MEQ) Survey
  - Geophysical Model
- Exploration Stages
  - Reconnaissance Study
  - Preliminary Survey
  - Exploration Survey
  - Feasibility Study

Drilling Consultancy

- Well Targeting
- Drilling Prognosis

Well Testing and Evaluation

Resource Assessment

- Conceptual Model
- Potential Calculation

Resource Management

- Well Monitoring
- Physical Monitoring
- Chemical Monitoring
- Reservoir Modeling
- Sustainability Assessment

Environmental Impact Assessment

Groundwater

Engineering

Software Development

Geothermal Training

OUR MAIN PERSONNELS

Dr. Eng. Yunus Daud, Dipl.Geotherm.Tech., M.Sc. (Lead Geothermal Expert)

Dr. Yunus Daud is a prominent geothermal expert in Indonesia with more than 25 years experiences in geothermal exploration, resource assessment , well targeting as well as drilling evaluation of geothermal area. He was also served as Head of Master Program of Geothermal Exploration in Universitas Indonesia since 2012.

Ir. Suwijanto Tarmidi (Senior Remote Sensing Expert/ Geologist)

Ir Suwijanto Tarmidi is an expert in geology and remote sensing technology for geothermal exploration in Indonesia with more than 30 years experiences. He was a prominent researcher of Indonesian Institute of Sciences specialized for geological imaging and remote sensing.

Dr. Fajar Hendrasto, Dipl.Geotherm.Tech., M.Sc. (Senior Geologist)

Dr. Fajar Hendrasto is a noted expert and academician of geology for geothermal in Indonesia for more than 20 years. He has been involved in various projects in geology for geothermal hydrogeology and petroleum.

Dr. Zainal Abidin, Dipl.Geotherm.Tech., M.Si. (Senior Geochemist)

Dr. Zainal Abidin is a proficient expert in the field of geochemistry for geothermal in Indonesia with more than 30 years in geochemistry and isotope technology for geothermal. Dr. Abidin was a researcher in hydrology in National Nuclear Agency (BATAN) since 1983.

Dr. M Syamsu Rosid, M.T. (Senior Geophysicist)

Dr. Syamsu Rosid is a prominent academician and expert in Indonesia with more than 25 years experiences in geophysical method, especially in potential geophysics, seismic, as well as electromagnetic method.

Dr. Surya Darma, M.B.A. (Senior Geothermal Expert)

Dr. Surya Darma, has over 30 year experiences in geothermal, power and energy sector with specialties in providing strategy of geothermal development, operation and monitoring stages.. From 2006 to 2009, he served as a Director of Operation of Pertamina Geothermal Energy. He also active as a Lecturer of the Geothermal Exploration Master Program, Universitas Indonesia since 2012.

OUR PARTNERS

Hitay · Chevron · Indonesia Power · Aboitiz Power · Star Energy · Medco Energi · Geo Dipa Energi · PEUI · Pertamina · 3J Tech · ORKA · PT Energy Kinan Internasional · SBG · Supreme Energy · Antam

GEOTHERMAL SURVEY DEPARTMENT

GEOTHERMAL EXPLORATION PACKAGES

Exploration stage is very important step to begin the geothermal development. The target of exploration is to increase the drilling success ratio, hence the integrated science and technology are needed to assess the resources.

Geological Mapping

Geological exploration is the first step of the preliminary reconnaissance. Objective of the geological exploration is to identify the surface manifestations (i.e. fumaroles, thermal springs, steaming ground, mud pools and geysers) in the geothermal prospect area. These geothermal manifestations are plotted in the geological map, completed with geological structures. Lithology, volcano-stratigraphy, and alteration analysis could also be provided to complete the geological model.

Geochemical Studies

Chemical content of geothermal fluid can give us very useful information that can lead to determine the further exploration program of the area. Supported by geological data, this geochemical data can be the guidance to make a recommendation for subsurface exploration. Chemical geothermometer related to the fluid chemistry and the temperature of the reservoir, become the common method used to assess the energy potential from the geothermal prospect area.

Geophysical Surveys

The subsurface image acquired from geophysical data is very important to the exploration stage. The surface manifestation found from the geological and geochemical data can be confirmed to the subsurface condition by analyzing physical parameters, such as: resistivity, density, and microearthquake event from the geophysical data.

GEOLOGICAL MAPPING

Remote Sensing

We provide analysis of geological structure, fracture density, surface kinetic temperature, rock unit and alteration from remote sensing data. This analysis will be used to guide field verification.

Surface Manifestations

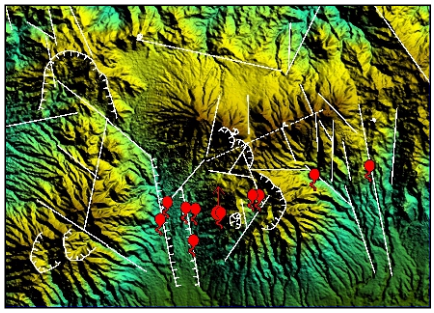
Location of thermal manifestations, such as fumaroles, hot springs, warm ground, are plotted to complete detail geological map. Thus, the appearence of the thermal features could be associated with the presence of geological structures and alteration zones.

Geological Structure

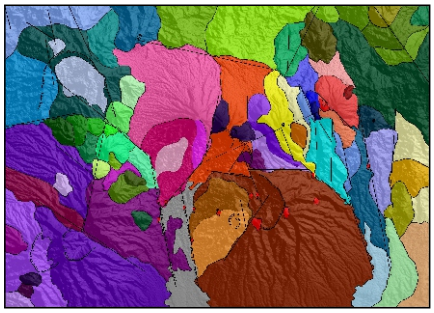
We provide a characterization of geological structures by combining analysis of remote sensing data and field observations, including the dip and strike. These results are expected to provide guidance in geological assessment.

Detailed Geological Condition

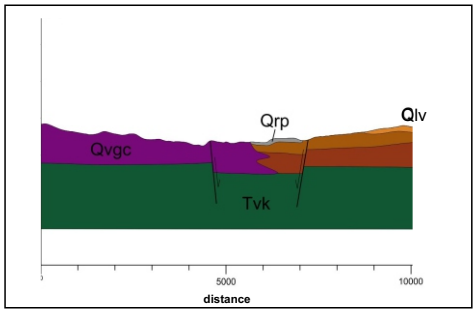
Our geologists will provide a more detailed picture of the geological conditions, such as geomorphology, lithology, volcano-stratigraphy, as well as mapping and analysis of alteration zones.



Geological Structure Map



Lithological Map



Geological Model

GEOCHEMICAL STUDIES

Sampling and Analysis of Water, Gas, and Isotope

The use of appropriate methods and careful sampling, determine the credibility of geochemical data. Geochemical understanding becomes important to prevent contamination during sampling.

Chemical Hydrogeology

Provide information about the water cycle of geothermal system, from recharge to discharge controlled by geological structure.

Chemical Geothermometry

Changes in temperature or pressure could affect the equilibrium concentration of all reactive solutes in geothermal fluid. However, it is necessary to select the proper chemical content, because it has a different response of reaction.

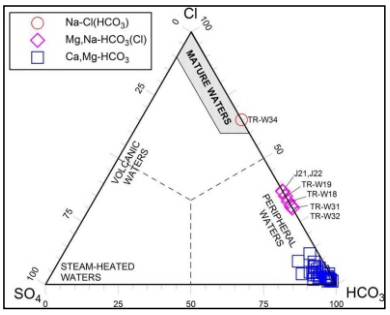
Injection Strategy

Reservoir conditions, hydrogeology, and permeable zone are important to consider the determination of injection strategy. Because, reinjection process could either maintain the sustainability of production from decrease temperature of reservoir if it is not properly placed.

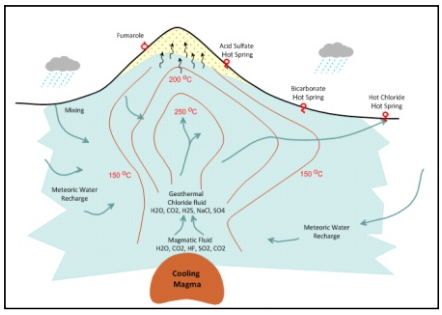
Geochemical Model

The results of the chemical content and isotope analysis could be presented to the geochemical models to provide clear visualization of the geothermal system.

Fluids Sampling



Terniary Diagram



Geochemical Model

GEOPHYSICAL SURVEY

MT and TDEM Survey

MT is a powerful geophysical method to delineate conductive clay zone overlying a geothermal reservoir. MT has been utilized to guide drilling sites in many geothermal explorations. In addition, TDEM data used to correct static shift effect in MT data.

Gravity Survey

Gravity method is conducted to delineate major subsurface structure in a geothermal field. Gravity data can be combined with other geophysical data, such as MT, to provide a more complete figure of the geothermal system and also to reduce its ambiguity.

Microearthquake Survey

Microearthquake activity that occurred in the area of geothermal could provide relevant information on the geological structure of the subsurface. Permeable zone which is one of the main targets in determining of well, could also be identified by this method.

MT and TDEM Survey

MEQ Survey

Gravity Survey

MT AND TDEM METHODS

Survey Design

First step of the techniques (i.e. survey design) should be well prepared considering geological and topographical condition, area of target, noise sources, as well as modeling/visualization.

Data Acquisition

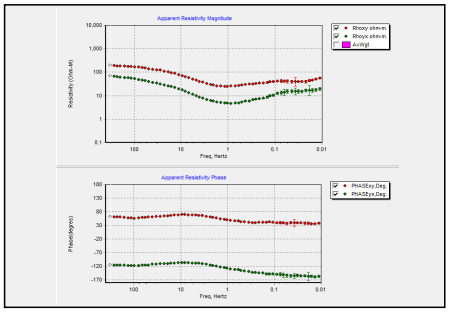
A proper way of data acquisition with following standard operational procedure is also important to carry out in order to get high quality data. Understanding the objective of the survey is also needed for planning efficient survey strategy.

Inversion and Modeling

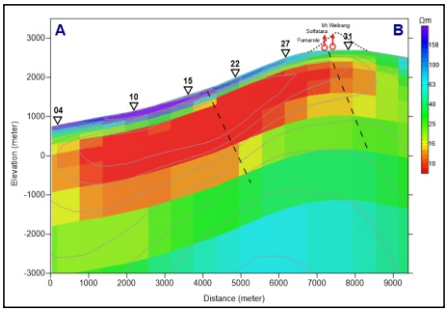
The main purpose of data processing is to minimize the possible noise and to correct MT data from static shift effect in order to produce high quality MT data that is ready for further modeling. The process consist of time-series analysis, remote reference, fourier transformation and robust processing, cross power selection, and static shift correction.

Data Interpretation

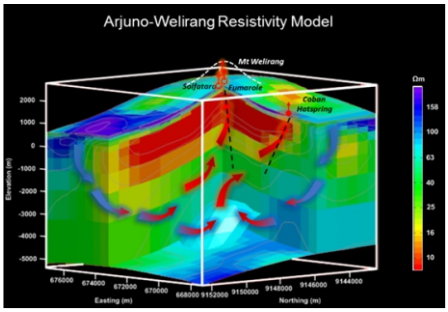
The components of geothermal system have correlation with resistivity value, that caused by temperature, fluid content, porosity, and mineral characteristic. MT method, with resistivity parameter, an appropriate technology in delineating geothermal resources, including identification top of reservoir, conductive clay cap distribution, and reservoir boundary. Interpretation of the data is depend on modeling result, so that the standard procedure data acquisition and carefull data processing are very important to produce modeling and interpretation with high level of confidence.



MT Apparent Resistivity & Phase Curve



MT Cross Section from 3D Inversion



MT 3D Modeling and Interpretation

GRAVITY SURVEY

Survey Design

The survey design is made based on geometry of target, coverage area, topography, and noise source. Accordingly data acquisition, the distribution of the measurement points can be made more effective.

Data Acquisition

Before performing Gravity data acquisition in the field, we perform several steps such as cycling, calibration, and binding the value of gravity, to obtain good measurement results with minimum deviation.

Data Processing

We perform data processing carefully, and use appropriate methods. Started with standard gravity reduction including terrain corrections to obtain a complete Bouguer anomaly. We also develop our own software (i.e. GravPro-X) to perform data reduction and provide with several methods for separating regional and residual anomalies, spectrum analysis, and the second vertical derivative (SVD).

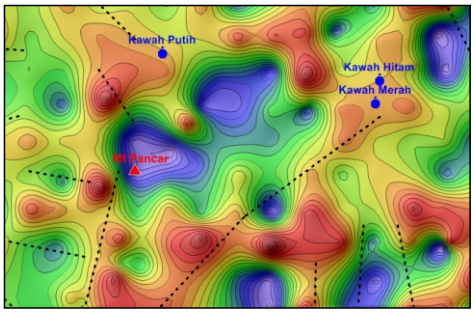
Data Modeling

After doing data processing, gravity data can be modeled to obtain distribution of subsurface density. The method can be performed by forward modeling and inverse modeling.

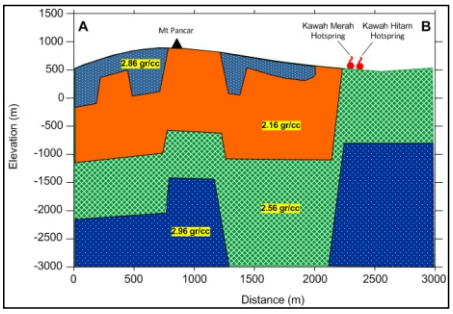
Data Interpretation

Gravity data could be used to identify the geological setting and geological structure of a geothermal system. To get a more convincing picture of the geothermal system, the gravity data should be combined with other data, such as MT. This step could also reduce the ambiguity of gravity data.

Gravity Data Acquisition



Residual Gravity Anomaly



2D Forward Modeling

MICROEARTHQUAKE SURVEY

Survey Design

In creating a design for a microearthquake survey (seismometer placement locations), it is necessary to estimate the location of the earthquake (event), such as the presence of geological structures and production and reinjection wells.

Data Acquisition

There are two kinds of tools used in the measurement of Microearthquake (MEQ), namely seismograph data logger and seismometer. The accuracy of a location estimate depends upon a number of factors including:

- the precision of the signal recording equipment,
- the accuracy of the assumed velocity model,
- the suitability of the location estimation technique, and
- the spatial distribution of the seismic sensors.

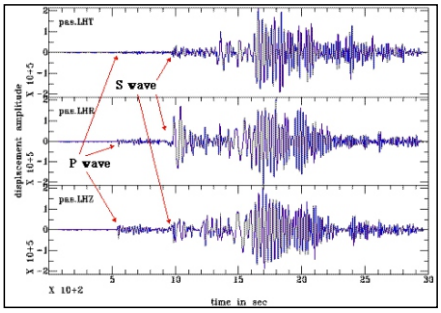
Data Processing

Noise analysis, picking first arrival, and determination the hypocenter are performed on the stages of microearthquake data processing. The crucial stage is to determine the first arrival of P-wave and S-wave. A few second difference at the time of picking, can change the location of the hypocenter.

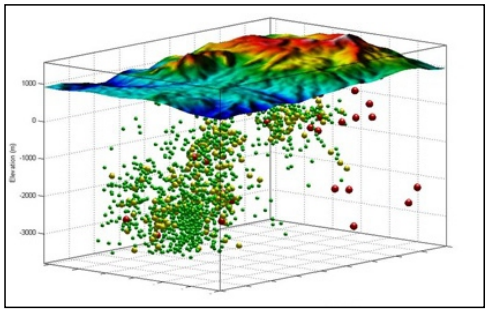
Data Interpretation

Hypocenters distribution could be used as an indicator in determining the permeable zone. More comprehensive analysis could be done by integrating the MEQ data with other geophysical data, such as MT and Gravity.

MEQ Instrumentation



MEQ Raw Data (Arrival Time)



MEQ Modeling

GEOTHERMAL RESOURCES EVALUATION PACKAGES

Quality Control of Geoscientific Data

Garbage in, garbage out. Geoscience data interpretation results with a high degree of confidence, requires good data quality as well. Quality control of the data obtained in the field is crucial to guarantee that the model will be generated. Quality control can be done by specifying scientific criteria and implement standard procedures for the acquisition and processing of data.

Re-Processing and Re-Modeling of Geoscientific Data

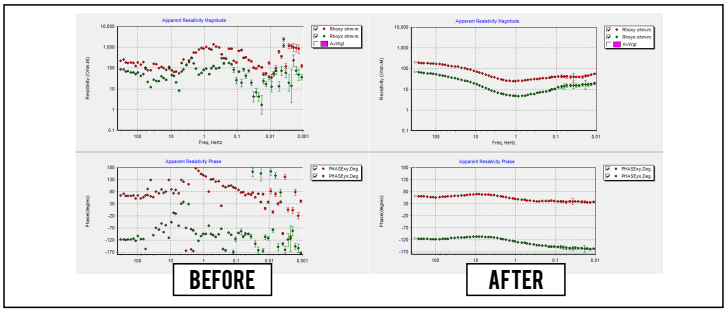
If the existing data could not give a strong indication or still have doubts in terms of quality, we can re-processing and re-modeling, in order to improve the quality of data. Which is expected to provide conclusive results.

Resources Assessment

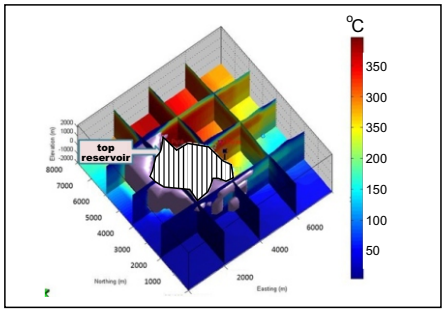
Geothermal resource assessment aims to determine the condition and estimate production capacity of the geothermal system. The assessment was conducted by collaborating the existing data, such as surface exploration data, exploration and production drilling, a.s well as monitoring data, to build a representative conceptual model of the geothermal system

Reservoir Modeling

The data acquired using geoscientific survey (i.e. geophysics, geology, and geochemistry), supported by exploration well data, is evaluated and then simulated to predict the potency and the reserve that can be produced, also how long the geothermal field can produce steam.



Reprocessing of MT Data



Reservoir Modeling

GEOTHERMAL MONITORING PACKAGES

During the exploration phase, reservoir is in dynamic condition. Many changes happened during the production process and fluid reinjection are being conducted. Many possibilities could be happen, i.e. production decline, scalling problem, overheated steam, which is caused by many factors. Therefore, the monitoring program is urgently needed to observe the changes of reservoir. So that, the stability of production could be controlled.

Microgravity Technology

Mass extraction in large enough quantities during the production process can lead to changes the mass balance in the subsurface. These changes can be detected using Microgravity methods conducted periodically at the same location.

Microearthquakes Technology

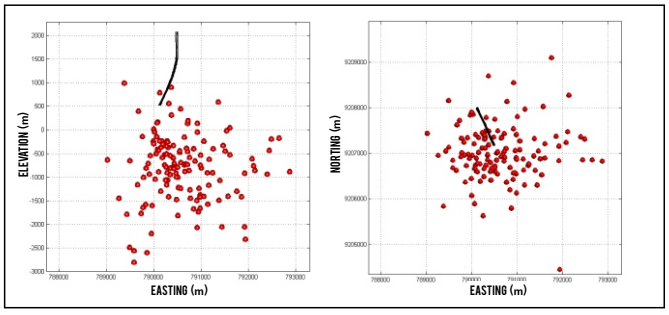
the fluid which is injected back into the subsurface is expected to maintain sustainability, sometimes flowing away from the reservoir. Microearthquake survey can be conducted to monitor the direction of the injected fluid.

Fluid Chemistry & Isotope Analysis

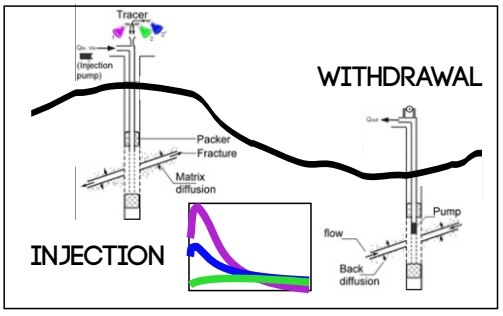
Information about the changes that occur in the reservoir during the production process could be discovered by analyzing the chemical content obtained from wells or from the manifestation on the surface.

Tracer Test

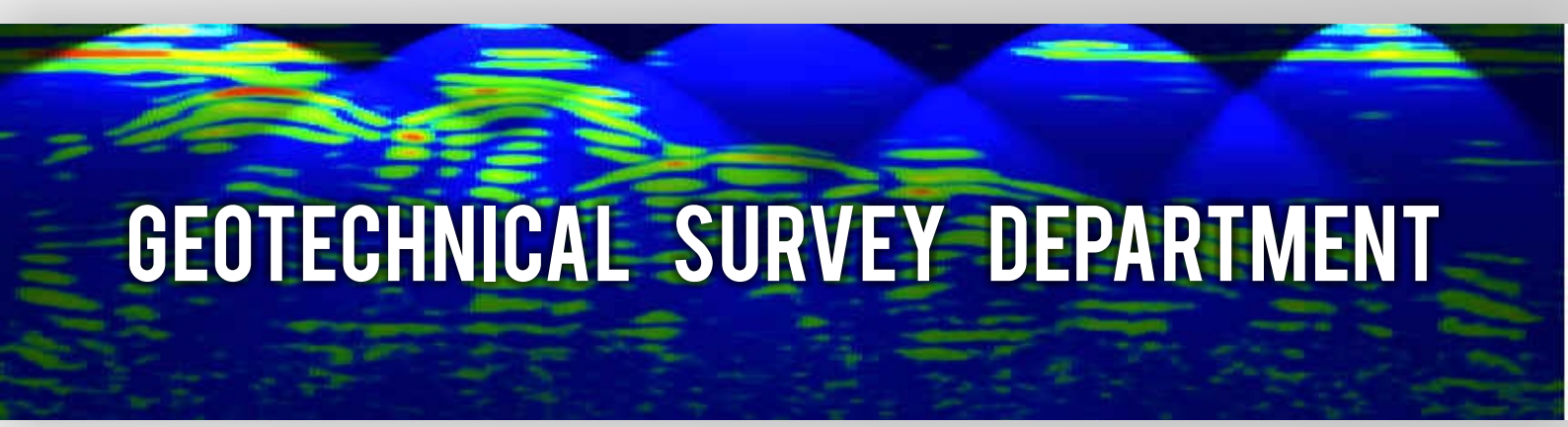
Tracers are used in geothermal reservoir engineering to determine the connectivity between injection and production wells. This information would be useful for the reservoir engineer to build reservoir models and give recommendation of program associated with reservoir management.



Cross Section of MEQ Event in Reservoir



Connectivity between Injection and Production Well



GEOTECHNICAL SURVEY DEPARTMENT

Geotechnical Survey department is a part of NewQuest Geotechnology which has a wide range areas of work in the field of geotechnical engineering, mineral exploration, and environmental studies. We provide a proper technology to detect subsurface object accurately.

Geotechnical Study

Our geotechnical engineers assist clients to achieve best value from their projects, whilst minimizing the risks of delayed completion, poor performance of the asset, financial loss and consequent impact. Our products in geotechnical study covers:

- Subsurface Utility Detection (pipes, cables, sewer, etc.)
- Downhole Seismic Logging (Shear Wave Velocity Logging)
- Bedrock Identification
- Investigation of Building Foundation

Environmental Investigation

Our integrated geoscience expertise also provide environmental investigation which includes:

- Cavities Investigation
- Delineation of Contaminated Waste Disposal
- Sea Water Intrusion Investigation
- Archaelogical Investigation
- Forensic Investigation

Mineral Exploration

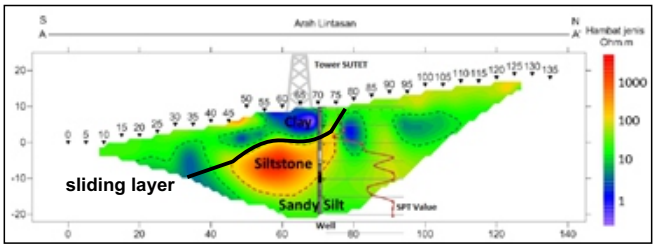
We also provide services technology in mineral exploration to assist our clients to get best geoscientific data in exploration industry, improving exploration efficiency, helping reduce exploration risk on mineral exploration. The technology could be applied in:

- Coal Mining
- Gold & Silver Mining
- Nickel & Bauxite Mining
- Iron Mining

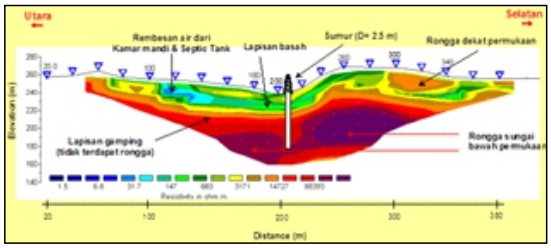
RESISTIVITY & INDUCED POLARIZATION (IP)

Geoelectrical Imaging is non destructive geophysical method which observe rock resistivity as contrast properties to detect subsurface object. The method conducted by injecting artificial currents into the ground and then measuring the potential difference resulting from the current. The method could be applied to these following cases:

- Cavities Investigation
- Underground River Investigation
- Landslide Study
- Mineral Exploration



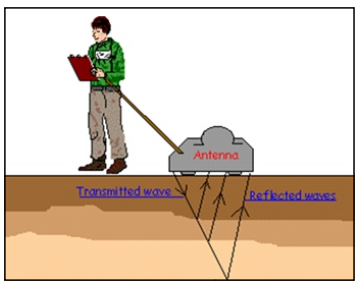
Landslide Delineation



Underground River & Cavity

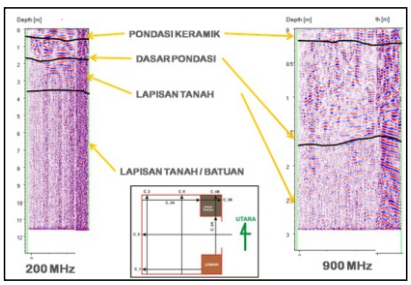
GROUND PENETRATING RADAR (GPR)

Ground Penetrating Radar (GPR) is an active method that utilize rock dielectric as contrast properties to detect object. The concept is using electromagnetic waves which works by utilizing its reflectance signal. GPR system has a transmitter circuit and receiver circuit Penetration of GPR depends on the frequency used at the transmitter and receiver. The deeper the target, the lower the frequency used. GPR method can be applied to these following cases: Concrete inspection, Utility detection, Geological survey, Archaeological survey, Forensic, Mining, etc.



Concept of GPR Method

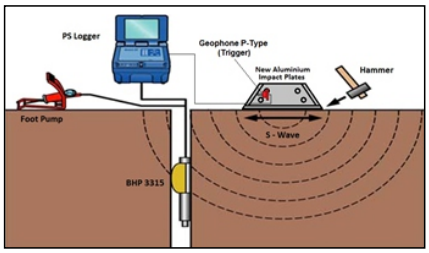
GPR Data Acquisition



Subsurface Soil Structure

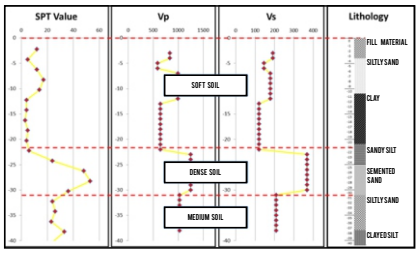
DOWNHOLE SEISMIC LOGGING

DownHole seismic logging is an active method that utilize rock density and velocity as contrast properties to detect object.The concept is generating artificial shear wave at the surface and measure travel time of the P and S wave to certain depth.



Downhole Seismic Logging Method


Data Acquisition



Result of Downhole Seismic Logging

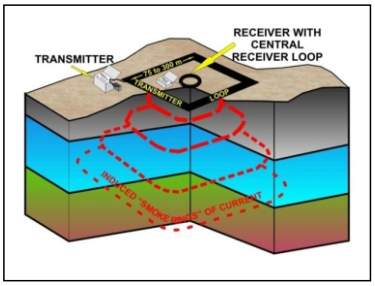
TIME DOMAIN ELECTROMAGNETIC (TDEM)

TDEM is an active method that utilize rock resistivity as contrast properties to detect object. This method works by inducing magnetic field into the earth and measuring magnetic field response decayed by time. Result from this method is resistivity sounding curve that describes subsurface rock resisitivity until 500m depth.

TDEM method can be applied to these following cases:

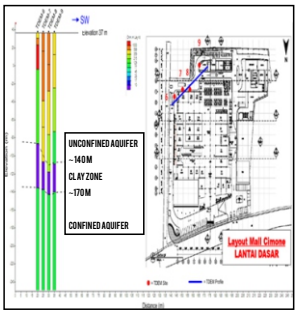
- Groundwater Investigation.
- Bedrock Identification.
- Mineral deposit exploration.

In order to fulfill clean water necessity, TDEM method can be used to find deep aquifer.



Concept of TDEM Method


TDEM Data Acquisition



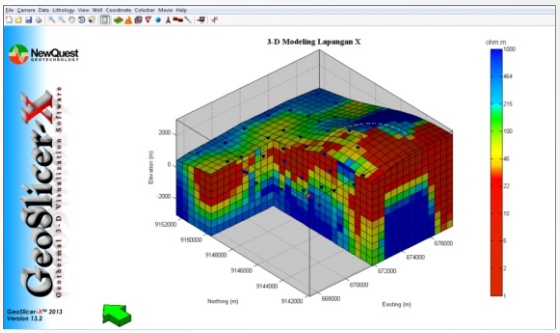
1D TDEM Modeling

SOFTWARE DEVELOPMENT DEPARTMENT

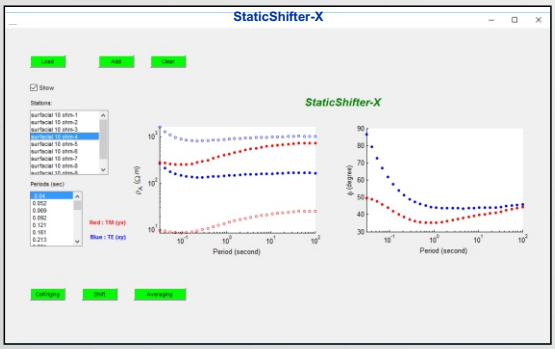
Software Development Department conduct research and development related to software in order to help geoscientists and engineers analyzing subsurface data.

GeoSlicer-X

GeoSlicer-X is a software developed to help geoscientists and engineers to analyze data in the form of 3-dimensional model. The software is used to perform 3-D modeling of geophysical data such as magnetotelluric, CSAMT, gravity, geoelectric, and magnetic data. In addition, this software can also be used to model the geological data, such as the distribution of rocks in a region. This software is interactive and user friendly and can generate static images (still) or dynamic (animated) images

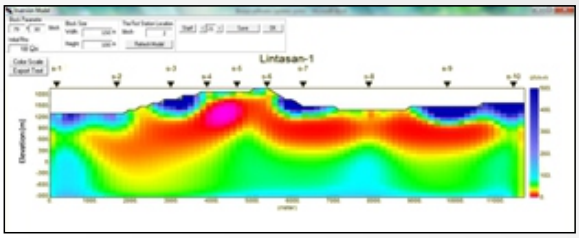


StaticShifter-X



This software is used to correct the static shift effect in Magnetotelluric (MT) data. Commonly, this curve shift correction process is only done by using TDEM curve. However, using this software, MT curve correction can be performed using a method based on geostatistical data processing. There are two geostatistical methods used by this software, namely CoKriging and Averaging.

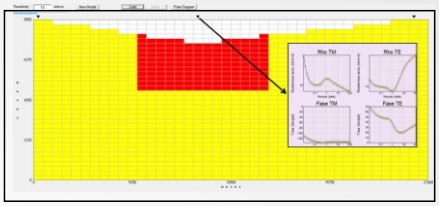
MT2DInv-X



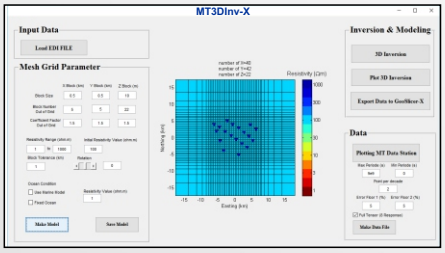
This software is used to perform 2-D inversion of the Magnetotelluric data. The input data for this software are period, rho TM, phase TM, rho TE, and phase TE

MT2DFor-X

This software is used to perform forward modeling of Magnetotelluric (MT) data. From 2-D model created using this software, the data output will be obtained in the form of rho and phase.



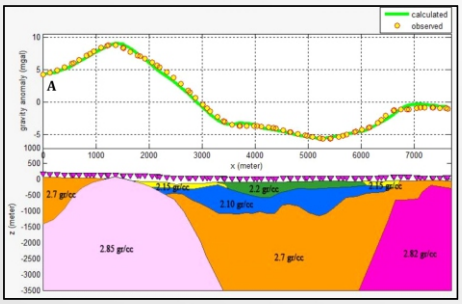
MT3DInv-X



This software is used to perform 3-D inversion of the Magnetotelluric (MT) data. MT3DInv-X can be used to facilitate in grid setting to perform 3-D inversion of MT data. The output can be integrated with 3-D visualization software, GeoSlicer-X. The result of 3-D Inversion of MT data visualized using the GeoSlicer-X software can provide information of the 'real' condition of the subsurface.

GravPro-X

This software is developed for gravity data processing from raw data to Complete Bouguer Anomaly including digital terrain correction. Moreover, the software can also perform regional and residual separation process, Second Vertical Derivative (SVD) process, spectrum analysis, and 2-D modeling of gravity data.



NewQuest GEOTECHNOLOGY
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TRAINING DEPARTMENT

Geothermal System and Exploration Technology

This training course will provide comprehensive knowledge regarding the geothermal system and geoscience (geology, geochemistry and geophysics) technology for exploring the geothermal resources. Well targeting and drilling prognosis are also included to the discussion. Emphasis will be put on how to do the proper geoscientific exploration so that the drilling risk can be decreased.

Magnetotelluric-Time Domain Electromagnetic Method Training

This training course will provide comprehensive knowledge about Magnetotelluric and Time Domain Electromagnetic method and its powerfulness in exploring geothermal resources. The discussion will be about the fundamental concept, data acquisition, processing, modeling and interpretation. Emphasis will be put on how to properly apply the method in geothermal exploration in order to obtain the less-ambiguous subsurface condition.

Gravity Method for Geothermal Exploration Training

This training course will provide comprehensive knowledge about gravity method, including fundamental concept, data acquisition, processing, modeling and interpretation. Emphasis will be put on proper gravity method for geothermal exploration.

MEQ Method Training

This training course will provide comprehensive knowledge about Micro-Earthquake (MEQ) method, including fundamental concept, data acquisition, processing, modeling and interpretation. Emphasis will be put on proper MEQ method for geothermal exploration and monitoring.

Resource Assessment & Prospect Evaluation

This training course will provide comprehensive knowledge about assessment of geothermal resources based on geoscientific (geology, geochemistry, and geophysics) data, construction of geothermal conceptual model, delineation of prospect area and potential assessment for electricity generation.

Geotechnical & Power Plant Development

This training course will provide comprehensive knowledge about geotechnical analysis of power plant structure foundation, design of power plant facility, and power plant engineering system.

Geothermal Regulation and Tender Preparation

This training course will provide comprehensive knowledge about the regulation that rule the geothermal development and also how to prepare the tender process for both of the government who open the tender and also the developer who participate on the tender process.

Special Topic (On Request by Client)

This training course will be provided based on client request on any geothermal aspects.

PROJECT EXPERIENCES

No	Project	Client	Year
Geothermal Survey Department			
1	Remote Sensing Data Analysis, MT Data Acquisition, MT 3D Modeling, Resource Assessment & Well Targeting of Tangkuban Parahu Geothermal Area	Indonesia Power	2016
2	Study of Geothermal Resource based on Slim Hole Drilling Result of Blawan – Ijen Geothermal Area	Medco Cahaya Geothermal	2016
3	MT Data Acquisition, Reprocessing of Existing MT Data, MT 3D Modeling and Geochemical Survey of Malintang PSP Area	Hitay Lawang Energy	2016
4	Project Management on Geological Mapping, Geochemical Study, Geophysical Survey (MT and Gravity), and Resource Assessment of Raung PSP Area	Hitay Runcing Energy	2015
5	Project Management on Geological Mapping, Geochemical Study, Geophysical Survey (MT and Gravity), and Resource Assessment of Tiris PSP Area	Hitay Rawas Energy	2015
6	Remote Sensing Data Analysis, Reprocessing of Existing MT Data, MT and Gravity Data Acquisition, MT 3D Modeling, Resource Assessment and Well Targeting of Blawan-Ijen Geothermal Area	Medco Cahaya Geothermal	2015
7	Remote Sensing Data Analysis and Geophysical Studies in Darajat Geothermal Field	Chevron Geothermal Indonesia	2015
8	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Tandikat PSP Area	Hitay Balai Kaba Energy	2014
9	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Talamau PSP Area	Hitay Green Energy	2014
10	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Tanjung Sakti PSP Area	Hitay Tanjungsakti	2014
11	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Lawang PSP Area	Hitay Lawang Energy	2014
12	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Dingin PSP Area	Hitay Dingin Energy	2014
13	Remote Sensing Data Analysis, MT 3D Modeling, Integrated Geoscientific Data Analysis and Interpretation of Bromo, Tengger, Semeru PSP Area	Hitay Renewable Energy	2014
14	Quality Control of MT-TDEM and Gravity Data Reprocessing of Dieng and Patuha Geothermal Field	Geo Dipa Energi	2013
15	Re-processing of MT Data and MT 3D Modeling of Mt. Gede-Pangrango Geothermal Prospect Area	Pertamina (Persero)	2013
16	MT-TDEM Data Acquisition, Reprocessing of Existing MT Data and MT 3D Modeling of North Wayang Windu Area	Star Energy	2012
17	Polar Diagram and Curve Splitting Analysis of MT Data, MT Pseudosection and 2D Modeling of Rajabasa Geothermal Area	Supreme Energy	2012
18	Polar Diagram and Curve Splitting Analysis of MT Data, MT Pseudosection and 2D Modeling of Muara Laboh Geothermal Area	Supreme Energy	2012
19	Polar Diagram and Curve Splitting Analysis of MT Data, MT Pseudosection and 2D Modeling of Rantau Dedap Geothermal Area	Supreme Energy	2012
20	MT-TDEM Analization & Visualization Services for Muara Laboh Geothermal Area	Supreme Energy	2012
21	MT Investigation QC, Processing, and Modeling of The Kaldera Danau Banten Geothermal Area	Sintesa Banten Geothermal	2011
22	MT Data Acquisition, Reprocessing of Existing MT Data and Modeling of Tampomas Geothermal Area	Jabar Energi	2011
23	MT-TDEM Data Evaluation, Reprocessing, and Modeling of Jailolo Geothermal Prospect	Star Energy	2011
Geotechnical Survey Department			
1	Downhole Seismic Logging Survey of Tangerang BMKG Station	Soil Mechanical Lab - UI	2014
2	Geoelectrical Imaging for Subsurface Damage Soil Structure Delineation of Surabaya-Gempol Toll Road	Lembaga Teknologi UI	2014
3	Downhole Seismic Logging Survey of Seabrezee Apartment, Ancol	Soil Mechanical Lab - UI	2014
4	Georadar Survey for Subsurface Installment Delineation of Indonesia National Museum	Pusat Dokumentasi Arsitektur	2014
5	Geoelectrical Imaging for Waste Leakage Delineation of Galuga, Bogor	Pemda Bogor	2014
6	Downhole Seismic Logging Survey of Pondok Betung BMKG Station	Soil Mechanical Lab - UI	2013
7	Geoelectrical Imaging for Landslide Layer Delineation of Powerline Tower, Sumedang	Perusahaan Listrik Negara	2013
8	TDEM Survey for Deep Aquifer Exploration of Cimone, Tangerang	Cimone Mall	2013
9	Georadar Survey for Building Foundation Delineation of Katedral Church, Jakarta	Katedral Church	2013
10	Georadar Survey for Subsurface Installment Delineation of Ministry of Finance, Jakarta	Limawera Wisesa	2012
11	Geoelectrical Imaging for Waste Leakage Delineation of Citayam, Depok	Local Goverment of Depok	2012
12	Geoelectrical Imaging for Waste Leakage Delineation of Cipayung, Depok	Local Goverment of Depok	2011
13	Geoelectrical Imaging for Subsurface Cavity Delineation of Gunung Puteri, Bogor	Pulau Intan	2011
14	Georadar Survey for Subsurface Installment Delineation of Faculty of Medical, Universitas Indonesia	Andalan Mitra Wahana	2011
15	Geoelectric Imaging and Georadar Survey for Subsurface River Cavity Delineation of A & B Bank Indonesia Building, Jakarta	Bank Indonesia	2011
Training Department			
1	In-house Training on Feasibility Study of Geothermal Power Development	PLN Pusenlis	2016
2	In-house Training on Geothermal System & Exploration Technology	Aneka Tambang (Geomin)	2014
3	Professional Training Course on Geothermal System & Exploration Technology	Geothermal Companies	2014
4	Professional Training Course on MT-TDEM and MEQ Technology and Its Application for Geothermal Exploration	Geo Dipa Energi	2012
5	Professional Training Course on MT-TDEM Technology and Its Application for Geothermal Exploration	Supreme Energy	2012

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