

set of geophysical and geotechnical surveys in water areas

investigation at underwater crossings of trunk pipelines (monitoring, technical supervision)

onshore geophysical, geotechnical and geodetic investigations

Geography of operations



Dear Sirs!

We suggest you to consider possibility of participation of our companies in projects of your company in following directions:



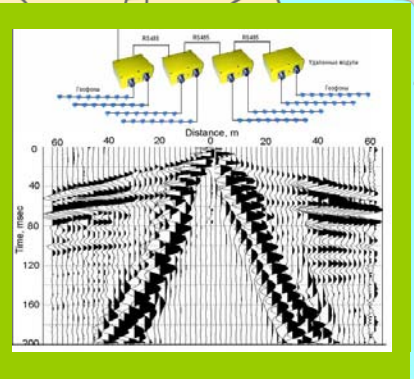
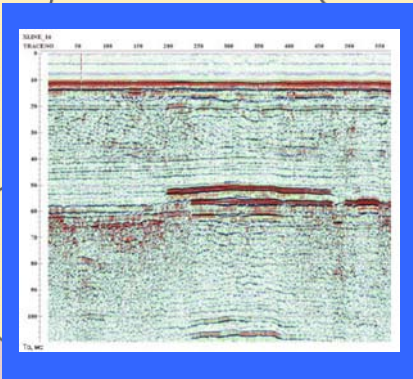
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onshore geophysical and geotechnical surveys



Our partners



About company

The "Morinzhgeologia" Group was established in 1993 based on the manufacturing, production and scientific-technical facilities of the former Research and Production Association "Soyuzmorinzhgeologia", which carried out comprehensive engineering surveys on the continental shelf of USSR during the development of oil and gas resources. After the establishment of our companies, the equipment was upgraded and new technologies were introduced, which allowed widening the scope of activities and of services provided.

Our specialists participated in the development of construction rules and regulations of the Russian Federation for engineering surveys on the continental shelf, and in the establishment of a system of monitoring of crossings of trunk pipelines across water barriers. The equipment has been certified in accordance with the requirements of the State Committee of the Russian Federation for Standards. The management system and a set of measures on environment protection are certificated under the international standards **ISO 9001:2008. and 14001:2008**. Standards and methods approved in CIS and other countries are used during the execution of operations.

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The management system and set of measures on environmental protection are certificated under international standards **ISO 9001:2008** and **14001:2004**.



The majority of the surveys carried out by the group of service companies "Morinzheologia" are directed to safety of construction and operation of engineering structure and dangerous industrial objects. Therefore the holding company gives particular attention to quality assurance at all stages of carrying out of operations.



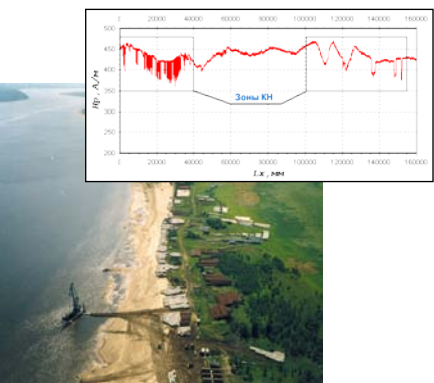
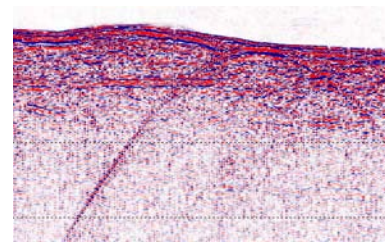
Offshore engineering survey is the basic profile of LLC "Morinzheologia" company.

There is an experience in engineering-geological and geophysical support at all stage of investigation and development of oil and gas resources:

stage	Purpose of surveys
Exploration operations	Provision of save operation of floating drilling rig utilized during the drilling of exploration wells
Field development	Engineering-geology support of design and construction of production structures and underwater pipelines
Production period	Monitoring of condition of offshore structure and pipelines

CJSC "DPT" carries out inspections and monitoring of underwater crossing of the trunk lines (UCTL) from 1994

In used set a key method is seismic acoustic (CSO), allowing not only to trace of plan-high-rise position but also to take the additional information on geological structure of surrounding formations.



Method of metal magnetic memory

- the latest method of non-destructive testing,
- developed by Limited Liability Company "Energodiagnostika" for the inspection of onshore section of pipelines,
- it is being tested by Closed Joint Co. "DPT" with the purpose of subsequent introduction in the practice of regular inspection of underwater pipelines переходов.

Qualitative carrying out of inspections of industrial dangerous production facilities, systematization and analysis of engineering-geological information promotes in effective and reliable planning of repair and preventive operations, leads to increasing of safety of producing and the pipeline infrastructure facilities and to decreasing in expenses for maintenance of accident free operation of facilities.



Principal direction →

types of operations →

sets of methods →

main subtasks →

set of geotechnical surveys in water areas

- soil investigations at sites of offshore exploration drilling;
- surveys in water areas for construction of underwater structures
- search for and diagnostics of underwater structures and wrecks

- continuous seismic acoustic profiling (Boomer + Sparker)
- high-resolution reflection seismic – common depth point (CDP)
- side-scan sonar surveys (SSS)
- bathymetry
- magnetic surveys
- cone penetration testing
- boring

- identification of geohazards (gas pockets, weak soils, buried river valleys, tectonic dislocations).
- identification and localisation of steep slopes, escarpments, wrecks.
- investigations of features of geological structure of soil massif to the depth of up to 120 m.
- Determination of composition and physical and mechanical properties of soils.
- exploration drilling, coring and core analyses, cone penetration testing (CPT).
- inspection of jetties, harbour and other engineering structures.

investigations at underwater crossings of trunk pipelines

- monitoring of technical condition of underwater crossings of trunk pipelines
- technical supervision of results of repair and construction operations at underwater crossings of trunk pipelines
- engineering surveys for crossings under

- Continuous seismic acoustic profiling (Boomer)
- SSS /scanning sonar surveys
- Electrometry
- Bathymetry
- Electromagnetic route search methods
- Method of metal magnetic memory (MMMM)

- determination of occurrence, horizontal and vertical position of pipelines, including that under soil layer.
- investigations of geological section of the bottom to the depth of up to 10 m.
- Identification of current losses in the cathodic protection, indirect determination of damage to waterproofing in the riverbed.
- localisation of various near-bottom objects.
- Coastal route search surveys.
- coastal geodetic surveys.
- geomorphological observations.
- monitoring and forecasting of fluvial processes.

onshore geotechnical surveys for construction purposes

- boring of engineering-geological boreholes;
- CPT and other field methods;
- laboratory methods determination of soil composition and them physical and mechanical properties ;
- shallow seismic

- Seismic reflection method CDP, Seismic refraction method, VSP,
- electric prospecting,
- ground penetrating radar;
- geodetic survey;
- CPT and other field methods ;
- boring and sampling;
- laboratory tastings.

- mapping and investigation of karst-suffusion processes;
- determination of geological hazards (gas pockets, cavitations, weak soil)
- identification of other geological hazards.