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## Geopolaration Survey Report

The following is a summary of the results of the Ukrainian delegation visit, geopolaration study and the presentation of results to the Jordanian Natural Resources Authority.

### Pre-Survey Activities

The Ukrainian delegation arrived on Thursday evening 19/2/04, and due to the weekend and New Year holiday delayed the start of actual work until 24/2/04. A meeting between members of KADDB, JAI and the Ukrainian delegation took place on 21/2/04 at JAI.

All necessary equipment were prepared, tested and mounted on a KADDB's made car. All necessary equipment were then mounted on a JAI's made aircraft to obtain readings in a wider region.

The Jordanian Natural Resource Authority (NRA) was contacted to provide a test area. The geological configuration of the test area was well known to the NRA as they had previously conducted their own studies and surveys. Such results were not known to any other party beforehand. The Ukrainian delegation was then asked to survey and study the test area, and then present the analysis and results to the NRA to compare their findings with the previously known results.

### The Survey

The delegation conducted a land geological survey on the test area using the geopolaration method, with the equipment mounted on a car. 10,000 different readings were taken using GPS to determine the location of each reading. The delegation felt that the area wasn't covered fully by their survey; however, the results were analyzed and presented to members of the Geological department in the NRA. Since members of the NRA had previously studied the test area and have previous knowledge of the results they were able to compare the results presented to them.

### The Results

The 3 dimensional results were a perfect match as follows;

- The location and direction of cracks and faults.
- The approximate depth of hot water layer.
- The prediction of seismic activities in the area




- Results were obtained in 3 dimensions.
- The survey was conducted and results were obtained within 24 hours. It's worth noting that the Jordanian geologists discovered the same results in 1984 after 2 years of hard work, research, survey and analysis.


Attached are the results of the Ukrainian delegation.

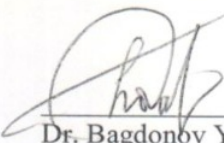
### Recommendation

The Head of the Geological Department at the NRA made the following recommendations.


- The existence of such science and technology in the kingdom is of a great value that will enhance the value of the natural resources currently available and not discovered. Such services may also be presented to neighboring countries, which will result in great financial gains to the country.
- The NRA asked to study the possibility and feasibility of connecting the geopolarization equipment to their existing seismic prediction and measuring equipment. This will result in better and more efficient readings thus being able to predict the time and location of earthquakes ahead of time.
- To conduct an aerial survey of an area to check the accuracy and results using JAI's aircrafts and to determine if such method can correctly locate minerals and other natural resources.

  
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