

## The integrated interpretation environment of 3D seismic data

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### 1. Introduction

In recent years, a great deal of 3D seismic data become able to be acquired and the importance of the integrated interpretation environment to implement interpretation, being high-speed and high-precision has risen. It thinks that the following is important in developing this integration interpretation environment.

\*The integrated basement information database and the 3D visualization environment

\*The improvement of the interpretation workflow which used the latest interpretation technology.

In that such a point is based, the valid geological information can be efficiently extracted from 3D seismic data. This time, it reviewed the utilization of the latest integration interpretation system was examined.

### 2. The integrated basement information database and 3D visualization environment.

To use the database to utilize the basement information which is related to utilize a reflection seismology seismic data in the validity, cooperating is valid and it thinks that the following consideration is necessary on the occasion of database construction.

\*The accumulation of the valid data by the format which has an usability

\*The utilization of the high-speed and searchable database management system (DBMS)

\*The security and securing of preservation

Also, the stored data becomes able to promote interpretation smoothly and synthetically at having to be at high speed and moreover clearly displayed in the three dimensions and in using 3D visualization environment. That these things are an indispensable item when implementing integration interpretation penetrates sufficiently but there is a scene which is utilized without being investigated, being enough about the contents, too.

### 4. The improvement of the interpretation workflow which used the latest interpretation technology.

If the interpretation workflow isn't improved even if it uses the interpretation equipment and the technology which is excellent in much, it is difficult to obtain an effective output. In other words, the improvement of the workflow to have considered a human factor is essential and is the troublesome problem not to solve only in the technology. However, it thinks that it promotes the interpretation workflow improvement by utilizing the latest technology and that it can be supported.

### 5. Conclusion

It thinks that the effective output can be won only in the technology, implementing the improvement of the interpretation workflow to have considered a human factor not to solve by utilizing an accurate integrated interpretation system.