



INTERPRET*

AN INTERACTIVE SYSTEM FOR THE INTERPRETATION OF SEISMIC DATA



The main characteristics of the Interpret* system are briefly described below.

More detailed information may be found in separate brochures which cover the topics addressed in each of the following paragraphs.

SYSTEM CONFIGURATIONS

System hardware is stand-alone and compact and requires no special computer environment; consequently the system can easily be installed in the user's own offices. It comprises:

- a 32-bit mini-computer with disc storage and tape unit,
- a workstation, i.e. a high resolution 1280 x 1024 pixels color screen, a digitizing tablet and a graphics screen.

Note that each system consists of a mini-computer and a single workstation, which ensures extremely rapid implementation and execution of tasks.

Two hardware configurations are available to the user according to size of mini-computer and type and number of peripherals:

- Interpret 200 is especially designed for medium-size surveys,
- Interpret 300 is a standard configuration for large 2D and 3D surveys.

Various optional items may be added to basic configurations, addressing the following in particular:

- memory size,
- mass storage capacity,
- hard copy devices.

CGG reserves the right to alter or amend any technical specification referred to in this document at any time and without prior notice.

3D PACKAGE

The 3D software package is specifically designed to display 3D seismic data with a minimum amount of delay to aid the interpreter in the management of 3D data volumes. It operates as a multi-task system with a master interactive task and a set of subtasks which assist in preparing the data displays and operate concurrently.

The main characteristics of the software are:

- Rapid access to any X, Y, T or random section. In concertina mode several sections can be selected and displayed on the same screen. An additional function permits easy display and verification of line intersections.
- A wide range of display functions: amplitude color-coding and wiggle, crossing horizon, movie loop, magnifying window, zoom, pan, flattening, multiple attributes, etc.
- Three different picking modes - automatic, semi-automatic and manual - for both vertical and horizontal sections.

After validation, tracked horizons are stored in the database; however, they can be modified by the interpreter at any time. Faults can be posted and stored in the data base in the same way.

- The ability to correlate surface seismic data with well data, for a complete geological interpretation.
- A mapping function, for continuous follow-up of the progress of the interpretation and intersection misties checking.

2D PACKAGE

The 2D software package offers most of the 3D package functions but applies them to irregular 2D survey grids.

The package provides the interpreter with rapid display functions, computer-aided picking, instantaneous follow-up of the interpretation, intersection checking.

RELEASE SCHEDULE

The Interpret system has been designed to provide a wide range of functions covering all phases of the transformation of geophysical data into geological data. The modularity of the software allows the system to be extended easily to meet new exploration requirements by adding new functions or upgrading existing tasks. An updated release schedule is available from CGG sales offices.