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# **INTERPRET\***

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## **2D PACKAGE**

The design philosophy of the Interpret 2D package is identical to that of the 3D package, i.e.:

- a stand-alone system using a 32-bit Perkin Elmer series 32 xx mini-computer,
- a user-friendly system with menu selection, which only requires minimal training of users who are not experts in computer science. Developed by geoscience specialists it meets all the requirements of geophysicists,
- rapid access to data and highly efficient display functions.

### **GENERAL DESCRIPTION**

The software operates as a multi-task system, comprising a master interactive task and a set of subtasks which assist in preparing data displays and operate concurrently.

A menu attached to a digitizing tablet makes the selection of workstation functions both simple and easy.

### **DATA INPUT AND STORAGE**

The Interpret system can handle many different types of seismic data at the same time. The interpreter can therefore display and interpret the same volume with different attributes, such as reflection: amplitudes, acoustic impedances, instantaneous phase, etc.

The input format is standard SEG Y and is loaded via the Geomax\* II system provided (simplified version). The Geomax II system can be upgraded to provide more data processing capabilities, such as filtering or AGC, and may even be expanded to a complete seismic processing system.

The results of the interpretation, such as time values and fault positions, are stored in the data base for retrieval and mapping with CGG's Interbase\* system.

A position map is loaded onto the system via standard surveying formats.

### **IMAGE SELECTION**

Once the seismic data and base map have been loaded the sections can be selected.

A position map displayed on the screen informs the user of the line he is currently working on. By means of the rosace function, the user can select the section and the time window he wants to work on.

### **PICKING**

Efficient manual, user-assisted or automatic picking functions can be applied to any display band at any scale. Faults and tectonic indications can be identified and stored in the data base.

### **INTERSECTION CHECKING**

Once a horizon has been picked on a section the intersections with crossing lines are automatically reported, thus considerably facilitating misties verification.

### **MAPPING**

Color-coded maps for each interpreted horizon are continuously reporting the progress of the interpretation.

Data base downloading onto tape or another system permits interpolation and contouring.

By linking the Interpret workstation to the Interbase system it is possible to handle time values, velocity fields and perform time-depth conversions or migrate isochron maps.



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# INTERPRET\*

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## RELEASE SCHEDULE

### INTERPRET 3D PACKAGE

**Interpret 1.1.** Delivery March 1985

- Batch loading of the 3D survey.
- Display of any kind of X, Y, T section.
- Display of any combination of intersection: XY, XT, YT.
- Simultaneous display of several sections.
- Picking on any display (horizontal and vertical) at any scale.
- Parameter management.
- Fault definition attached to the horizons.
- Zoom and pan functions including magnifying glasses.
- Flattening functions.
- Mapping:
  - follow-up of the interpretation
  - interpolation and gridding
  - map of misties.
- Color management.
- Data base management.
- Downloading of the data base to Interbase\* and other external formats.

**Interpret 1.2.** June 1985

Main functions in addition to release 1.1.:

- Reconstructed lines.
- Well data: well geometry definition including deviation, check shots, geological tops, synthetic seismograms, display on seismic.

**Interpret 1.3.** December 1985

Main functions in addition to release 1.2.:

- Definition of fault planes.
- Well data: interactive computation of synthetic seismograms.
- Gridding and contouring.

**Interpret 1.4.** February 1986

Main functions in addition to release 1.3.:

- Spatial 3D correlation of faults, intersections with horizons, mapping.
- Grid manipulation and velocity field management.

### INTERPRET 2D PACKAGE

**Interpret 2.1.** June 1985

- Batch loading of the 2D survey.
- Picking functions.
- Downloading to Interbase or other external formats.

**Interpret 2.2.** October 1985

Main functions in addition to release 2.1.:

- Input of the position map.
- Intersection management.
- Interactive selection of data on the base map.

**MODELING** September 1985

- Definition of a 2D model.
- Zero offset response computed by ray-tracing.



# INTERPRET\*

## SYSTEM CONFIGURATIONS

### INTERPRET 200

Stand-alone configuration for the interpretation of a medium size data set (2D and 3D surveys)

Computer:	Perkin Elmer 3205, 32-bit minicomputer with floating point processor and 4 Mbytes of memory
Disc unit:	300 Mbytes disc drive
Tape unit:	800/1600 bpi tape drive
User console:	alphanumeric screen
Color screen:	Ramtek 9465 8-bit planes 19" high resolution 1280 × 1024 pixels color screen
Graphic screen:	Tektronix 4125
Digitizing tablet:	11" × 11" tablet with stylus or cursor

### INTERPRET 300

Stand-alone configuration for any size of data set (2D and 3D surveys)

Computer:	Perkin Elmer 3210, 32-bit minicomputer with floating point processor and 4 Mbytes of memory
Disc unit:	600 Mbytes disc drive
Tape unit:	1600/6250 bpi tape drive
User console:	alphanumeric screen
Color screen:	Ramtek 9465 8-bit planes 25" high resolution 1280 × 1024 pixels color screen
Graphic screen:	Tektronix 4125
Digitizing tablet:	11" × 11" tablet with stylus or cursor
Hard copy:	Tektronix 4692 for 4125 hard-copy (color ink-jet plotter)

### OPTIONS

Disc:	both the Interpret 200 and 300 systems can be upgraded through additional disc units by increments of 300 Mb or 600 Mb
Tape unit:	a 1600/6250 bpi tape drive can be supplied with the Interpret 200 system a 1600/6250 bpi 125 ips can be supplied with the Interpret 200 or 300 system
Color screen:	the 25" 1280 × 1024 pixels Ramtek color monitor can be supplied with the Interpret 200 system

Hard copy:	1. a video peripheral of the Ramtek, producing either – prints on 24 × 36 mm color slides with developing system – prints on Polaroid 8" × 10" 2. thermal ink-transfer plotter for the Ramtek hard copy (8 colors) A4 size 3. Tektronix 4692 color display ink-jet plotter for the Tektronix 4125
Link with CDC computer:	SSA communication board (Hasp) and two modem (Telsat 930 or equivalent)
Plotter:	Versatec 7224 (24") for output of sections and mapping
Line printer:	different models available

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