



Company Overview

Hampton Data Services (HDS) was established in 1991, as a geotechnical data processing company specialising in legacy data. HDS's mission was to provide the highest quality, comprehensive, auditable, Data Management and Information services aimed at delivering interpretation-ready data, on time, to its customers' geoscientists. The success of this initial strategy speaks for itself, ensuring that HDS is now the chosen service provider for many of the industry's major players. This in turn has enabled HDS to expand and diversify into being a provider of a comprehensive range of software and service solutions.



With a team of over 25 highly experienced, multi-lingual geoscientists, system engineers, software developers, and support staff, HDS is fully committed to providing you with the right solution for your data.

Hampton Data Services – our services include:-

- ✓ Document scanning
- ✓ Document OCR
- ✓ Remote Data Capture
- ✓ Data Indexing and Cataloguing
- ✓ Well log digitising
- ✓ Map digitising
- ✓ GIS preparation
- ✓ Seismic reconstruction
- ✓ Well Log Editing/Conditioning
- ✓ Workstation loading
- ✓ Database Population
- ✓ Interpretation services – seismic, geological, petrophysical
- ✓ Project Management
- ✓ Seismic Processing
- ✓ Seismic Survey Design
- ✓ Software Programming
- ✓ Software Testing
- ✓ Provision of personnel
- ✓ Data Conversion
- ✓ Database conversion
- ✓ Media Conversion
- ✓ Data Management studies
- ✓ Multi-disciplinary studies

Services Overview

Remote Data Capture

Using modern modular scanning hardware and our own specialist software packages, our experienced geotechnicians will travel to anywhere in the world to carry out on-site digital capture of:

- ✓ Well logs (monochrome & colour)
- ✓ Seismic Sections
- ✓ Maps
- ✓ Photographs
- ✓ Well Reports
- ✓ Production Reports
- ✓ Charts



The resultant scanned raster images can be stored on DAT or CD-ROM and if applicable, and transferred electronically to the location of choice. No original data leaves the client site. On return, hard copies can be made, well logs and maps can be digitised, and surface seismic can be reconstructed and processed.

To date our trained engineers and technicians have successfully carried out remote data capture projects in Russia, Turkmenistan, Kazakhstan, Uzbekistan, Armenia, Syria, Poland, Iran, Algeria, Malaysia, France, Austria and Italy.

Cataloguing Services and Software

HDS's customisable geotechnical data cataloguing database, was developed to capture and organize analogue, raster and digital data sets. Utilizing existing indexes provided by the client, together with data entry, it provides E&P decision makers with a clear overview of all available resources gathered from the field, displayed in an ordered, coherent manner.

Transcription

HDS offers a range of transcription services for the transfer of data between a variety of media and format types. Our range of equipment will handle most types of magnetic tapes and formats such as 21-track, 9-track, 3480, DLT, and 3590.

Conversion

HDS can convert all your digital data to standard vector formats (i.e. ASCII - LIS - LAS - BIT - TIF - SEG - UKOAA - ZYCOR)

Digitisation Services and Software

HDS's team of highly experienced geotechnical specialists is able to offer a quality, efficient, reliable and cost-effective digitizing service.

Our expertise encompasses digitisation of well logs, seismic data, maps and graphs from hard copy formats (paper, microfiche, films, etc.) into industry standard electronic vector formats.

HDS's range of digitization services includes:

- ✓ seismic trace reconstruction
- ✓ waveform reconstruction
- ✓ migration and splicing of different aged data sets
- ✓ horizon digitisation
- ✓ map digitisation

In order to support and enhance these services, HDS continues to develop leading edge software which enables us to deliver you the very best in data quality and integrity.

HDS's **LogCARD**, which was developed as a professional software package for accurately digitising (scanning & viewing) hard copy well log data, is an illustration of this. It is in constant daily use in HDS's bureau centres and is well known and well regarded throughout the industry.

LogCARD's design philosophy was based on a variety of practical requirements including ease of use, volume production and quality control. Its capabilities range from standard curve digitisation on western scales to non-linear, non-logarithmic FSU style calibration units, computed tadpole results to original HDT data, and lithology and core interval data, to include perforation intervals.

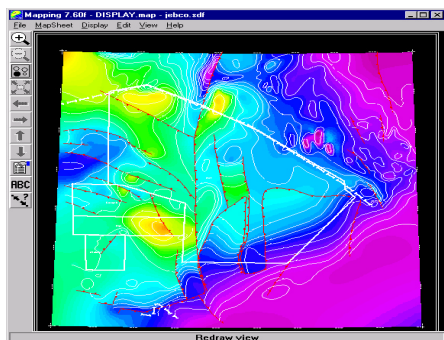
LogCARD uses the raster scanning method for digitising well log prints. The raster format supported is the industry standard uncompressed and compressed Group III or Group IV TIFF (Tagged Image File) Format. Colour scanners can be used to capture 'Russian style' strip logs and the LogCARD software will use this extra parameter in its curve auto tracking routines.

Map Digitization

Map digitization converts a scanned raster map image into digital data that can then be put into a variety of software to produce accurate high-resolution maps. Sophisticated scanning procedures can alleviate the problem of poor quality original documents, whilst algorithms may be used to remove distortion from folded, rolled or damaged maps. Knowledge of the projection system of the original map increases the accuracy of the final output, and may be applied accordingly tailored to client needs.

All of HDS's digitisation outputs support a range of industry standards ready for client workstation loading. This data can also be input into other software packages, thereby enabling further development of the data sets beyond their basic digital origins.

In order to support this value-added digitization service, HDS has developed its own mapping software, **MapCARD**.



MapCARD was developed using the same software engineering group as **LogCARD** to make it mutually compatible. The software allows maps to be scanned and vectorised in several projection modes. It also has an underlying GIS structure to enable data from other sources to be imported and merged within the digitisation process. This allows vectors with known coordinates to be superimposed on a rasterised map for verification of projections.

Seismic Reconstruction Services

HDS now offers a specialised seismic reconstruction service. The trace information from the scanned paper seismic sections is captured in SEG-Y digital format, thus enabling the seismic data to be:

- loaded to a workstation
- further processed
- re-displayed at a more useful scale

Our software solution utilises a wide range of tracking algorithms (including full waveform tracking) thus ensuring that we provide you with the best possible results from seismic sections of any display type or condition.

Data Conditioning

Since its inception HDS has provided data editing services aimed at creating petrophysically-ready data in accordance with client specifications. Now, following the addition of a number of specialist software packages, we are able to offer a greatly enhanced service range, which includes:

- ✓ **Stretch and Squeeze** to correct wireline data
- ✓ **Baseline Corrections** – this allows the correction of well log data as wireline properties change with depth related influences of temperature and pressure
- ✓ **De-spiking of sonic curves** to remove anomalous values which nullify the use of DT data sets

Other services provided include:

- Depth Correlation
- Log Compositing
- TVD Conversion
- Environmental Corrections
- Synthetic Seismogram generation
- BZK-RT Conversions
- Well Correlation using Wireline Data

In order to support this value-added digitization service, HDS has developed its own audited well log editing and processing software, **LogEDIT**.

LogEDIT is a vector manipulation package that uniquely records all actions performed by a log analyst in the log editing and compositing stage. It allows LIS, ASCII and digitised data to be merged, checked, edited and re-plotted. It is a Windows 3.1, WIN98 package with NT versions available.

All common petrophysical editing is possible, with both linear shift and stretch-squeeze depth adjustments possible. A math's calculation module allows complex algorithms to be run on the data, including user defined tabular transforms as used in environmental corrections.

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HDTiffVIEW – TIFF Image Viewing Software

HDTiffVIEW, HDS's software product, is a superior TIFF image viewer optimised for handling the large images common to G&G. With the aid of a thumbnail it offers the user excellent scrolling, image manipulation and viewing facilities, together with plotting capabilities to any HP RTL compatible plotter.

- ✓ Thumbnail view for easy navigation and zooming with large documents
- ✓ Plotting to HP RTL
- ✓ Designed for Oversized documents
- ✓ Operates on Win95/98, Win2000 and NT platforms
- ✓ Supports all compression formats

Contact Information

If you want to know more about HDS and what we can do for you, please do not hesitate to contact us at:

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