



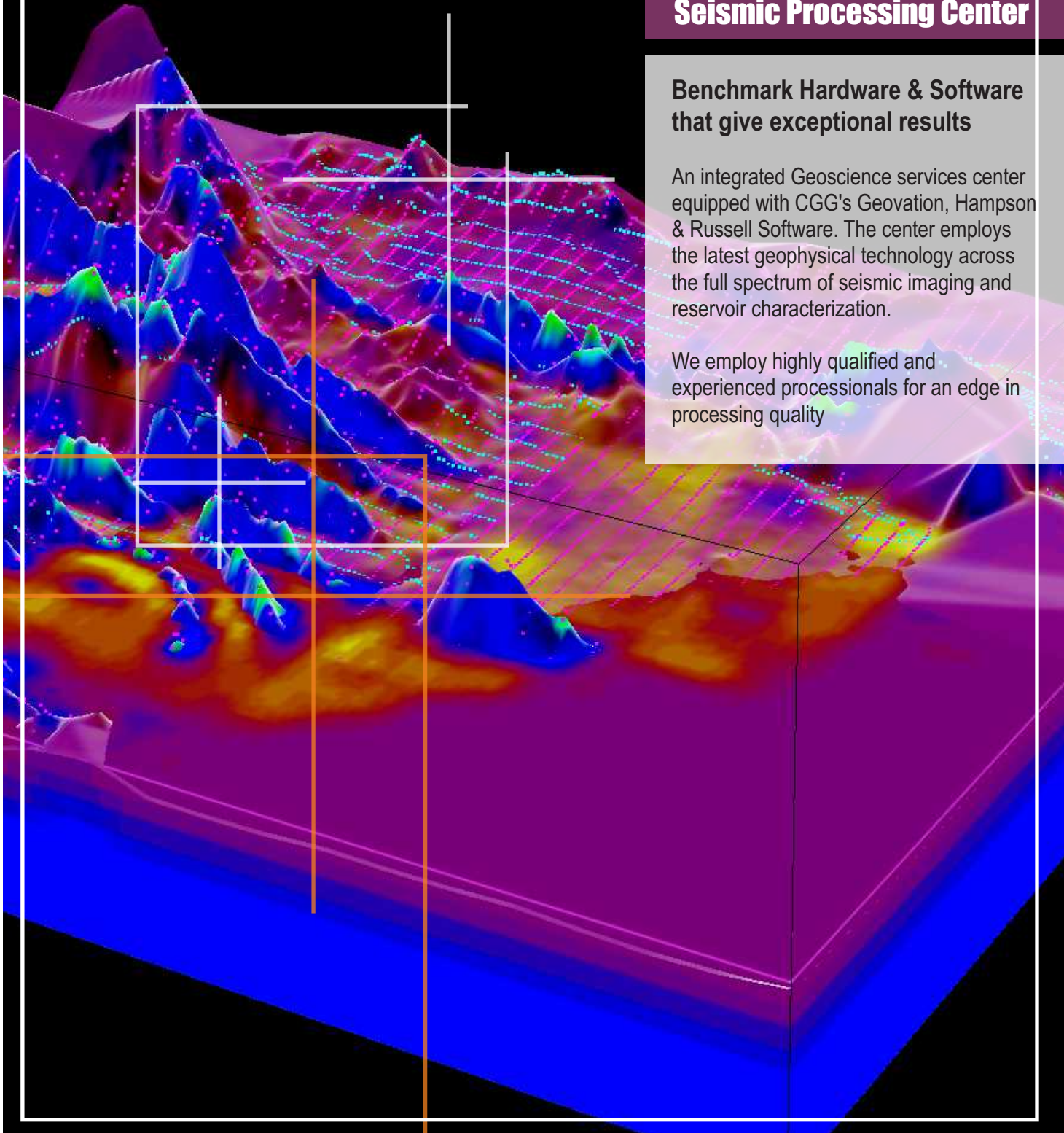
# Data Processing SERVICES

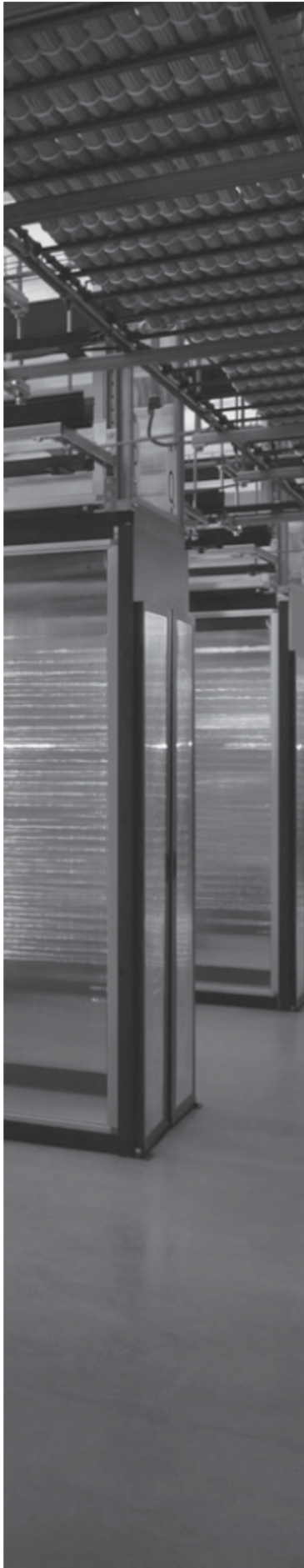
## Seismic Processing Center

### Benchmark Hardware & Software that give exceptional results

An integrated Geoscience services center equipped with CGG's Geovation, Hampson & Russell Software. The center employs the latest geophysical technology across the full spectrum of seismic imaging and reservoir characterization.

We employ highly qualified and experienced professionals for an edge in processing quality





## Data Processing Center

### Features

- ✓ Comprehensive suite of 2D/3D seismic data processing, imaging and Seismic reservoir characterization
- ✓ CGG Geovation software with Batch modules and interactive applications for seismic data QC, velocity analysis, refraction statics, signal processing
- ✓ Anisotropic Velocity Model Building using CGG's Tornado, Hampson & Russel interactive packages
- ✓ Geovation software for velocity model update and depth migration (KPSTM, CBM & RTM)
- ✓ Hampson & Russel software for Seismic AVO inversion (stochastic & deterministic) Petro-elastic Modelling with creation of litho cubes
- ✓ Processed around 5000 line km 2D, over 2000 sq km 3D, and 2000 sq km Seismic Inversion projects, since start of the Center in 2014, covering various areas of Pakistan
- ✓ Scalable hardware powered by 256 core computing nodes for time and depth
- ✓ Highly professional and dedicated staff

### Datasheet

<b>Computing Nodes (256 Cores)</b>	<p><b>224 cores</b> - (4 x 12 + 1 x 8 microprocessor sleds), 1 x 4-Core, Intel Xeon E3-1241v3 @ 3.4Ghz, 32GB Mem-ory (4x8GB DDR3 1333MHz), 2x 1TB SATA 3.5"Drives, 7.2K RPM</p> <p><b>32 cores</b> - (4 x 8 microprocessor sleds), 1 x 4-Core, Intel XeonE3-1240 @3.4 GHz, 80W, 16GB Memory (4x4GB DDR3 1333 MHz), 2x 600GB, 2.5" 6Gbps SAS Drives, 10K RPM</p>
<b>Application Server</b>	2 x 4-Core, Intel Xeon E5 2643 @ 3.30 GHz, 750W, 288GB Memory (24x8GB DDR3 1333 MHz), 2x146GB & 6x300 GB, 2.5" 6Gbps SAS Drives, 10K RPM
<b>Logger, GDBS,NFS</b>	3 x (2 x 4-Core Intel, Xeon E5 2609 @ 2.40 GHz), 750W, 32GB Memory (4x8GB DDR3 1333 MHz), 6x600GB, 2.5" 6Gbps SAS Drives, 10K RPM
<b>Storage Array</b>	<p>Dell PowerVault MD1200 Storage Array 48TB Raw Data Storage disk tray, 12 drive slots 12 x 4TB HDD: NL SAS 7.2K 6Gbps</p> <p>Dell PowerVault MD1200 Storage Array 96TB Raw Data Storage Disk Tray, 12 drive slots HDD: 12 x 8TB NL SAS 7.2K 12Gbps</p>
<b>Tape Library</b>	2 x LTO5-140 Drives, 24 slots 6Gbps SAS Dual Port HBA
<b>Tape Drives</b>	2 x 3592-E07 (TS1140) Drives, 8Gbps FC Dual Port HBA, 1x3490 Drive, SCSI Interface
<b>Workstations</b>	8 x (1 x 4-Core, Intel E5-1607 @ 3.0 GHz), 64GB Memory (8x8GB DDR3 1333MHz), 500GB SATA Drive 7.2K RPM, Nvidia Graphic Card K2000 2GB, 2x30" LED Display Screen
<b>Plotters</b>	Design Jet Color Plotter 36"and Thermal Plotter 24"