**GTS
GEOTECH**
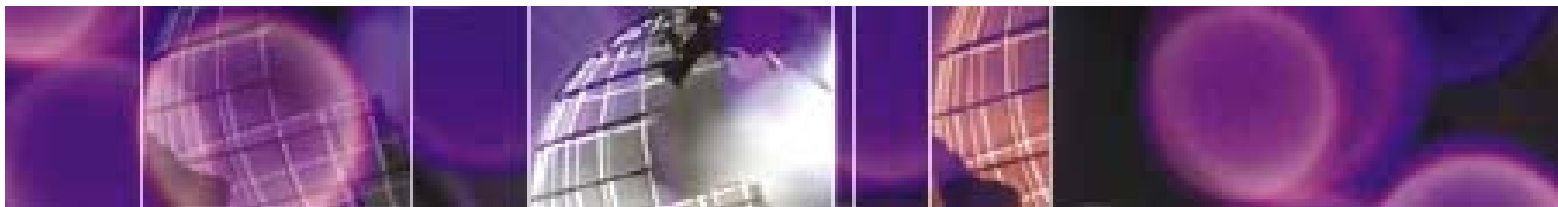
GTS – GEOTECH

Services Brochure

1   Executive summary

This document serves to introduce GTS Geotech to prospective clients. GTS is the largest independent provider of geoscience IT support services to the upstream oil and gas industry in the UK. The company was established in 1995 and is privately owned.

Our key service offerings meet our clients' business critical requirements for reliable and cost-effective geosciences IT support solutions. These include:

> Geological and Geophysical Application Support
> Geotechnical Data Management & Loading
> UNIX Systems Administration & Hardware Support
> PC & Linux System administration
> Consultancy Services

Our largest customer base is currently in the UK, where we enjoy a 20% market share. GTS also operates in the USA, Europe and the Middle East. We have over 80 clients worldwide, including ExxonMobil, Shell, ChevronTexaco and Total, and a reputation for dependable, high quality services delivered by a highly skilled workforce.

The GTS management team, with over 90 years diverse oil industry experience, has maintained the steady growth of the company while successfully navigating the inevitable economic cycles of the industry.

Table of Contents

2　Introduction

This document is provided in order to introduce GTS Geotech. It gives an overview of the company, its services and current market position.

3　Company Background and History

Geotech Systems Ltd (GTS Geotech) was founded by Alin Farah in May 1995 as a limited liability company with one UK director and two non-executive USA directors.

GTS Geotech LLP is a limited liability partnership, established at the beginning of 2000 to address the needs of the US marketplace.

Originally, GTS entered the oil and gas industry to provide geo-computing services to customers in the Middle East and Africa. Having won a reputation for delivering a dependable high-quality service, GTS rapidly expanded its operations into the UK and European markets. Along with this geographical expansion, our range of services has grown in answer to the industry's demand for multi-vendor software and I.T. solutions with services that span support for exploration, production, data and information management.

4   Services and Customers

4.1   Services

GTS provides a range of services targeted primarily at the Exploration and Production (E&P) sector of the Upstream Oil and Gas Industry. GTS currently has operations in the United Kingdom, Europe, North America and the Middle East.

Our key service offerings are:

      Geological and Geophysical Application Support

      Geotechnical Data Loading and Data Management

      UNIX, Linux & PC Systems Administration & Hardware Support

      Consultancy Services

4.1.1 Geological and Geophysical Application Support

GTS is the largest independent provider of Landmark, GeoQuest and 3rd party application support services. We have an experienced team of application support specialists who provide first and second line support, one-on-one help and mentoring and workflow analysis. These services are provided on-site in our clients' offices.

Geoscience applications supported include:

Landmark suite	GeoQuest suite	3rd Party applications
OpenWorks	Finder	VoxelGeo
SeisWorks	LogDB	Isatis
StratWorks	Eclipse	AVO
Z-Map	Charisma	Kingdom Suite
PetroWorks	GeoFrame	Geographix
OpenExplorer	IESX	GeoLog
OpenJournal	CPS	Tigress
TDQ	StratLog	Petrobank
SynTool	WellPix	Recall
Rave	WellEdit	Probe

Depth Team Express	PetroView Plus	Stratimagic
EarthCube		
OpenVision		
SeisCube		
ProMax		
LogM,		
PostStack		
StrataModel		

4.1.2 Geotechnical Data Management & Loading

Data Management services have always been a core component of GTS business.

The company offers a wide range of data related services, including:

On-site Data Management Support – highly skilled data management experts

On-site Data loading - seismic and well data loading into both Landmark and GeoQuest (IESX & Charisma) formats as well as third party & Kingdom.

Data capture, reformatting and quality control.

Project and data conversion - consolidation and/or migration of large volumes of project data between Landmark, GeoQuest & Kingdom formats. GTS' experience of managing both Landmark and GeoQuest data sets ensures our personnel are able to efficiently deal with the issues arising from these complex data consolidation projects.

Database population - Population of all major E&P databases including Finder, OpenWorks, Recall and GeoFrame.

Data-rooms - GTS provides Data-Room services together with skilled technicians to commission and manage these facilities on-site at our clients' offices.

Data Cataloguing & Mining staff

Records & Document management support staff

Livelink & EDM Analysts & administrators

Data Librarians

4.1.3 UNIX, Linux & PC System Administration

GTS provides on-site System Administration at many major oil & gas companies. This includes the traditional administrator's role of responding to client requests for service but also involves:

- User support – account administration, application installations & configuration
- Design and implementation of company-wide UNIX, Linux & PC desktops
- Design, implementation and testing of backup policies
- Design and implementation of new UNIX, Linux & PC hardware environments - encompassing server, storage and network technologies.
- Application testing - UNIX, Linux & PC platforms
- Installation & support of Thin Client technologies – testing, installation & design

GTS is responsible for the specification, implementation and ongoing support of various Network Attached Storage (NAS) and Storage Area Networking (SAN) solutions at many client sites.

Support includes right-sizing, capacity planning, performance testing, growing storage availability, and the implementation and testing of backup systems.

Examples of GTS projects include:

- Reconfiguration of Network Appliance Filer to increase capacity and performance
- Ongoing support of an LSI SAN to a large Unix/NT community
- Implementation of Hitachi Data Systems SAN and data transfer from legacy storage
- Specifying and installing a Sun SAN into a new environment
- Specifying and installing an SGI SAN into an existing environment

4.1.4 Consultancy Services
.

Over the last few years GTS has steadily expanded their high-level Consultancy services.

Consultancy work has been undertaken in all our core service offerings as well as the area of Information Management.

Geotechnical Consultancy

  E&P Workflow analysis

  Geotechnical dataflow analysis and audits

  Data management governance consultancy (standards, policies, procedures)

  Data migration, conversion and cleanup

  Application upgrades.

Information Technology Consultancy

  System audits (Hardware/Software/Network)

  Systems integration

  Major Software/Hardware/Network installations and upgrades

  Backup strategies and solutions

  Database installation/configuration/optimization.

Information Management Consultancy

  KM/Change management initiatives

  EDM requirements analyses

  EDM/KM Implementations and upgrades

  Document centre/technical library projects

  Physical and electronic document cleanup.

General Business Consultancy

  Project Management

  Business Process Analysis/Reengineering

  Technical analyses/ External validation

  Risk analysis and disaster recovery planning

  Best practice recommendations.

5   Clients

Our past & present clients fall into the following categories:

Major US and European International integrated oil & gas companies

State owned or national oil companies

Independents

Oil and gas service organizations.

At the time of writing our past & present clients include:

US Clients	Location	Product/Service
Agip	Houston	Application Support
Apache	Houston	Landmark Application Support
BP	Houston	Landmark Application Support
ChevronTexaco	Houston	Consultancy, Landmark Application Support, Data Management
ChevronTexaco	New Orleans	Landmark Application Support, Data Management
ConocoPhillips	Houston	Data Management
Dominion Energy	Houston	UNIX, NT and Applications Support
EEX	Houston	Geotechnical Support
El Paso	Houston	Landmark Data Management
Exxon Mobil	Houston/New Orleans	UNIX and NT Support GeoQuest Support, Landmark Support, Data Management
Houston Exploration	Houston	Consultancy, UNIX Support, Data Management
Murphy	Houston	Application Support
Novtex	Houston	Data Management, Hardware Sales
Shell	Houston	Data Management, Document Management
Texaco	Houston	Application Support

UK Clients	Location	Product/Service
ATP	Guildford	Hardware Supply
Arco/BP	Guildford	GeoQuest Applications Support, Data Management, Workflow Consultancy
Agip	Aberdeen	Applications Support, Data management, Training
Anadarko	London	Technical Assistant and Landmark Support
BHP Petroleum	London	Hardware Maintenance UNIX and NT Support Landmark and GeoQuest Support
Apache Corporation	Aberdeen	Hardware Supply
BG	Reading	Application support, Data Management, Data Librarian, Unix system administration, Data Rationalisation project
BP	Sunbury	Data Management Support
Britannia Operator Ltd.	Aberdeen	Hardware Consultancy & Sales
British Borneo	London	Hardware Maintenance
Burlington Resources	London	Landmark Applications Support
CalEnergy Gas	London	Hardware Maintenance and Sales, UNIX Support, Mapping projects, Hardware Sales
Chevron	Aberdeen	UNIX Support, Hardware Sales, Visualisation Centre Installations
Chevron	London	UNIX Support, Applications Support
CNR	Aberdeen	Landmark and 3rd party Application Support, Hardware Consultancy and Sales
CNR	Guildford	UNIX Support, Hardware Consultancy and Sales, Application Upgrade Consultancy
ConocoPhillips	Aberdeen	Data Loading Landmark & UNIX Support, Hardware Sales
E.D.C	Sevenoaks	Hardware Sales and Maintenance

Encana	Uxbridge	Wintel and Applications Support, Project Management
Enterprise Oil	Aberdeen	Data Management
ExxonMobil	Aberdeen	Landmark Support and Data Loading
ExxonMobil	Leatherhead	GeoQuest Support
ExxonMobil	London	Landmark Support, Data Loading and Finder Support
Hunt Oil	Woking	Hardware Sales and Maintenance, UNIX and NT Support
Kerr McGee	Aberdeen	Landmark / GeoQuest Support UNIX Support
ENI-LASMO	London	UNIX and NT Support Oracle, OpenWorks, Finder, EDM (LiveLink) Support, Hardware Sales, Visualisation Centre Install
Lukoil	London	Data Management
Marathon	Aberdeen	Applications Support, Hardware Sales
Marathon	London	Applications/UNIX Support & Mapping projects, Hardware Sales
Murphy Eastern Oil	London	Remote Support (Data Management, Landmark Support, UNIX support, Data Loading) & Hardware Sales and Maintenance
Newfield	London	IT Consultancy
Nimir	London	Application Support, Systems Support, Data Loading, Hardware Consultancy and Sales, Application Upgrade Consultancy
PDA	Guildford	Hardware Consultancy and Supply, Data Management and Data Loading
Pan Canadian	London	UNIX and NT Support, Data room Consultancy
Petrobras	London	UNIX and NT Support
PetroCanada	London	Data Management, Hardware Sales

PGS Reservoir	Maidenhead	UNIX and NT Support, Hardware Sales and Maintenance
PGS Data Management	Maidenhead	UNIX and NT Support, Hardware Sales and Maintenance
Premier Oil	London	UNIX Support, Oracle Support, Hardware Maintenance
Shell	Aberdeen	Oracle Support, Landmark Support and Data Loading & Data Management
Shell	Lowestoft	Data Management/Landmark Data loading
Statoil	London	Data Management & Data Librarian
Stirling Energy	Harpenden	System & Infrastructure Support
Svitzer	Great Yarmouth	Hardware Maintenance
Tullow Oil	Dublin	Hardware Supply
Total	Aberdeen	UNIX and Landmark Support & Data Loading
Tullow Oil	London	Hardware Supply

European Clients	Location	Product/Service
Agip	Norway	Hardware Consultancy
Chevron	Norway	UNIX Administration
Conoco	Norway	Landmark Applications Support
Denerco	Denmark	Consultancy Services
Maersk	Denmark	Applications Support & administration
Perenco	France	Application Support, Consultancy
Repsol	Madrid	GeoQuest Application & Mapping Support
RWE-DEA	Norway	GeoQuest Support, Systems Consultancy

Shell	Netherlands	GeoQuest Application Support, Unix & Linux support, Data Management
Total Norge	Norway	GeoQuest Support, Data Loading & Hardware Consultancy
Total	Paris	Landmark & GeoQuest Seismic Data Loading
Total	Pau	Landmark Seismic Data Loading

M.E & S.E.A. Clients	Location	Product/Service
Cairn Energy	Chennai, India	Systems and Data Management Consultancy
Chevron	Qatar and Bahrain	Hardware Maintenance
KUFPEC	Kuwait	Consultancy Services
Landmark	Middle East	Hardware Maintenance
ONGC	Mumbai, India	Hardware Maintenance
Shell Iran	Dubai, UAE	Applications and UNIX Support, Remote support, EDM consultancy, EDM Project Management
Shell Iran	Tehran, Iran	Hardware Sales, Hardware Maintenance, GeoFrame Installation and configuration
Shell/P.D.O.	Muscat, Oman	Hardware Maintenance and Landmark Support
Total	Dubai, UAE	GeoQuest Applications Support, Data Loading, Data Management
Total	Abu Dhabi, UAE	Data Management Consultancy
Total	Indonesia	Landmark Application Support
Vico	Indonesia	Landmark Application Support

6   Why Choose GTS Geotech?

GTS provides superior, quality technical support services for the oil & gas industry.

GTS delivers services rapidly when faced with urgent customer demand:

Thorough understanding of the E&P business

Swift & Reliable service to clients – understanding requirements & delivering required service

High-calibre experienced support staff - knowledge of industry best-practice and with a strong service ethos

Independence of software vendors – GTS support of heterogeneous application mix

Service reliability, delivered 52 weeks per year – cover-staff provided

Cover-staff familiar of site details – all sites are documented so service is uninterrupted by staff absences

Independent advice and support without bias or favour - no application software sales agenda

Knowledge Pool – onsite support staff have access to a pool of 70 technical experts with the broadest range of support skills available to the industry

Flexible service options to fit clients unique requirements -

6.1 Geotech Employees

At present the total number of personnel employed by Geotech (including GTS Geotech LLP) is 77. The breakdown of these personnel can be summarised as follows:

Field Staff:		
	Applications /Data Geoscientists:	55
	Systems Support Geoscientists:	14
Office Staff:		
	Admin & Finance:	2
	Operations & Personnel:	2
	Sales Staff:	3

The majority of GTS field personnel have first degrees in either IT or Earth Sciences along with relevant industry experience, thereby providing GTS with an extensive resource of domain specific knowledge.

GTS management and sales staff have oil & gas industry backgrounds so understand the need for a reliable, cost-effective and efficient service. The team pride themselves on their industry knowledge and their ability to build close working relationships with clients.

The sales team look to add value by working with and on behalf of the client to find and secure services in an efficient and friendly manner.

6.2   GTS Contact Information

For all enquiries into GTS Support & Services please contact the Sales Team:

Scotland (Aberdeen) & Northern Europe/Scandinavia

Mr. Gareth Grundy (Sales & Account Manager)

19 Albert Street,

Aberdeen AB25 1QF, UK

Tel : +44 (0)1224 626923

Fax : +44 (0)1224 626436

Email: gareth.grundy@gts-geotech.com

London & Southern Europe/Netherlands

Mr. Paul McCarthy (Sales & Account Manager)

1-3 Bury House

Bury Street

Guildford

Surrey GU2 4AW

Tel: +31 (0) 703 227210 Mob: +44 (0) 7738 457114

Fax: +44(0)1483 574555

Email: paul.mccarthy@gts-geotech.com

USA, Canada & South America

Mr. Tim Shepherd (Sales & Operations Manager)

410 Pierce Street

Suite 316

Houston, TX 77002

Tel: +1 713 357 9517

Fax: +1 832 553 1086

Email: tim.shepherd@gts-geotech.com