BEST
Oilfield Services

SERVICES CATALOG

www.best.com.tn

About BEST Oilfield Services

People

Since its founding in 2003, BEST Oilfield Services has worked to form a solid engineering team, highly motivated, and culturally diverse workforce. All engineers are recruited from the best engineering universities to build a highly qualified team.
The structured career development program includes fixed-step training and relevant competence certifications. BEST Oilfield Services is always looking to develop its business in the oil and gas industry with its pioneering partners worldwide, and share mutually their experiences.

Facilities

TUNIS OFFICE: 200 m² of office space.

SFAX WAREHOUSE: 300 m² of office space.
1000 m² covred warehousespace.
4000 m² yard space.

Customs Clearing

3 customs clearing officers, handling import export for sea freight, land freight, air freight.

References

Overwiew

BEST
Oilfield Services

Surface Logging Services

Cold Cutting Services

Drilling Services

BEST Oilfield Services devote all of its efforts (personnel, experiences, software, equipment ...) to increase drilling operation's performance and quality by reducing Non-productive time, improving rig safety, and creating a link between all of services companies presents in the same field.

QHSE Management System

BEST Oilfield Services is committed to provide clients with the highest quality services and at the same time protecting the environment and the health and safety of all who share it.

BEST Oilfield Services implemented an integrated, Quality, Health Safety and environment management system.

To do so, we are committed:

1.To satisfy customer requirements and increase their satisfaction.

2.To comply with regulatory and legal requirements and other requirements to which we subscribe and for our benefit, health and safety and environmental aspects .

3.To continually improve the effectiveness of our integrated management system.

4.To make every effort to meet contractual deadlines agreed with our customers.

5.To control costs and quality of our services.

6.To the prevention of pollution, injury and illness health .

7.To reduce to the lowest level, the risk of accidents and incidents HSE offices in Tunis, at Sfax base, roads and at customer sites .

8.A control waste generated by our operations and minimize the risk of pollution including the discharge of oils and fats used and the air and water discharge.

9.To capitalize and develop the skills and versatility of our staff and to promote the exchange of information and communication.

10.To ensure a better understanding of our policy, programs and QHSE performance by our staff, our customers and subcontractors and through appropriate communication.

To this effect , we have appointed a QHSE Management Representative whose responsibility is primarily to ensure the implementation and improvement of the integrated management system and report to the management of its operations.

BEST Group has been awarded the ISO 9001:2008 certification on 18 May 2011 and on 12 May 2014

BEST Group has been awarded the BS OHSAS 18001:2007 certification on 18 July 2013

BEST Group has been awarded the ISO 14001:2004 certification on 4 June 2015

Products and Services

BEST
Oilfield Services

SURFACE LOGGING SERVICES

Mud Logging Units
DAPS: **D**ata **A**cquisition and **P**rocessing **S**ystem
Advanced monitoring system
Sensors
Advanced sensors
Advanced drilling pack
Gas system and gas chain
Advanced gas system and processing
Real-time data transmission
Geological operations and surface formation evaluation services

COLD CUTTING SERVICES

CONTROLLED AUTOMATIC WELLBORE CREATION ESTABLISHING BEST PRODUCTION CONDITIONS

EDR: **E**lectronic **D**rilling **R**ecorder
Navigator Pro EDR
Navigator Pro Viewer
Navigator Pro Slave Monitor
Navigator Automatic Driller System
Automatic Drilling equipment

Products and Services

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SURFACE LOGGING SERVICES

COLD CUTTING SERVICES

CONTROLLED AUTOMATIC WELLBORE CREATION ESTABLISHING BEST PRODUCTION CONDITIONS

Mud Logging Units

BEST OILFIELD SERVICES Mud Logging Unit is certified by DNV for Zone I & II and is suitable for use in both offshore and onshore rids. The cabin is designed and manufactured by **BEST OILFIELD SERVICES**, and all hardware and software are thoroughly tested by our team of highly qualified Manufacturing and Service Engineers before unit deployment.

Our highly trained rig-site geologists and engineers to acquire and store lithological data that is combined with engineering data collected from surface sensors to provide integrated formation evaluation, monitoring of drilling performance and operational safety.
We also cater a separate work area for the company geologist in our spacious cabin.

The pressurization, fire and gas control system is a fully controlled system that can be installed in any zone I hazardous area, and is designed to monitor the conditions in pressurized logging cabins used in areas made potentially hazardous by the presence of flammable liquids, gases, or vapors. The system comes with an ex-proof pressure switch for monitoring the continuous cabin pressurization, an ex-proof hydrocarbon gas detector for flammable gas monitoring, and two intrinsically safe smoke detectors for heat and flame detection.

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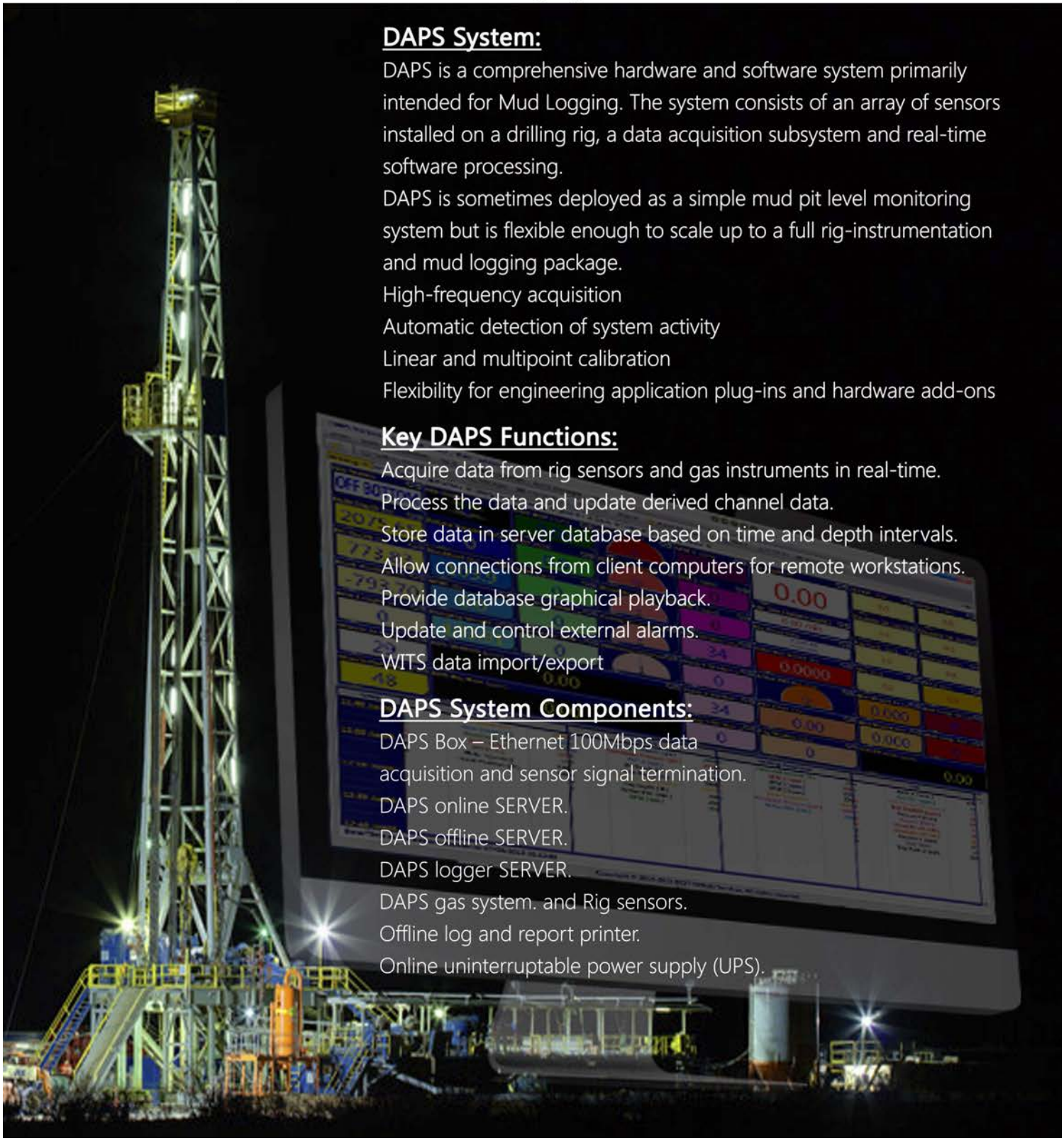
DAPS: Data Acquisition and Processing System



DAPS System:

DAPS is a comprehensive hardware and software system primarily intended for Mud Logging. The system consists of an array of sensors installed on a drilling rig, a data acquisition subsystem and real-time software processing.

DAPS is sometimes deployed as a simple mud pit level monitoring system but is flexible enough to scale up to a full rig-instrumentation and mud logging package.

High-frequency acquisition

Automatic detection of system activity

Linear and multipoint calibration

Flexibility for engineering application plug-ins and hardware add-ons

Key DAPS Functions:

Acquire data from rig sensors and gas instruments in real-time.

Process the data and update derived channel data.

Store data in server database based on time and depth intervals.

Allow connections from client computers for remote workstations.

Provide database graphical playback.

Update and control external alarms.

WITS data import/export

DAPS System Components:

DAPS Box – Ethernet 100Mbps data acquisition and sensor signal termination.

DAPS online SERVER.

DAPS offline SERVER.

DAPS logger SERVER.

DAPS gas system. and Rig sensors.

Offline log and report printer.

Online uninterruptable power supply (UPS).

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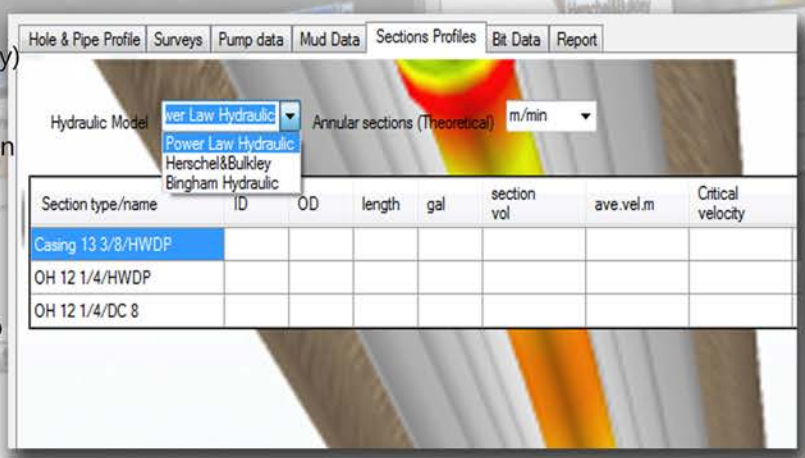
Advanced monitoring system

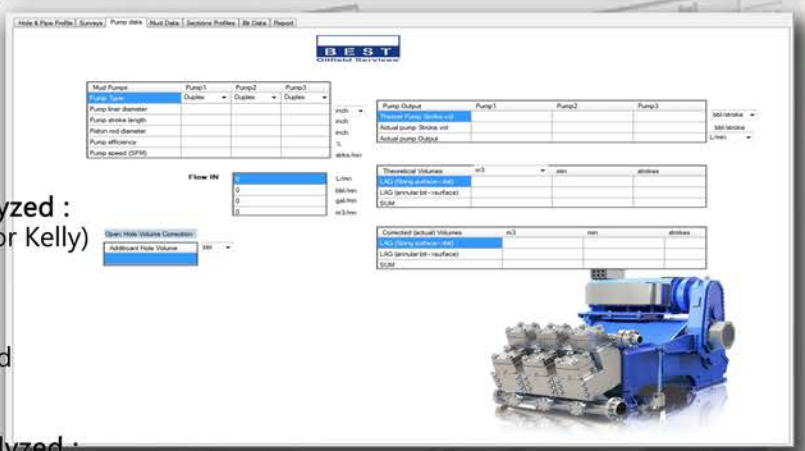
Hydraulic (Real-time and simulator)

This analysis has a fundamental importance for the safety of the well and for the efficiency of the drilling conditions :

Well Safety :
- Calculations of ECD (Equivalent Circulating Density) to be sure that it is not higher that the fracture gradient at the shoe
- Calculation of ECD to evaluate possible connection gas (under-balance conditions)
- Calculate the maximum velocity of the drill-string while tripping to avoid the swab or surge effect



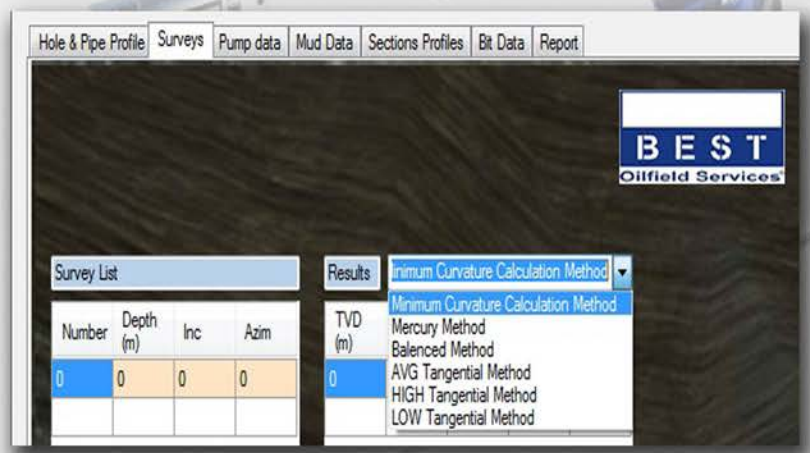
Drilling Efficiency :
- Verify that the computed value is close enough to the real value, to control abnormal situations (pumps efficiency, wash-out, nozzles efficiency, wrong rheology, wrong pipes diameters....)
- Choose proper liners of the pumps
- Apply a proper mud flow rate to ensure the good cleaning of the annulus
- Determine the flow regime
- Optimize the Bit Hydraulics



While Drilling the following systems will be analyzed :
- Surface System (from the pump to the top-drive or Kelly)
- Inside the pipes (Circular flow)
- Through the bit nozzles
- Inside the annulus (Annular flow)

The sum of those four partial pressure losses should be close to the real value of SPP

While tripping the following systems will be analyzed :
- Inside the annulus considering the nozzle closed
- Inside the annulus considering the nozzles open



Directional Survey/Well Deviation Analysis:
Those parameters are computed according 5 mathematical models :
-Minimum Curvature Calculation method
-Mercury Method
-Balenced Method
-AVG Tangential Method
-HIGH Tangential Method
-LOW Tangential Method

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Sensors

The DAPS acquisition system can connect and process data from hundreds sensors at 1-Hz acquisition frequency, allowing full flexibility to connect different sensor types and to import and record parameters of any kind in a customizable database. This also allows acquisition at high frequency.

Analog, digital and quadratic signals are directly connected by the field junction boxes (capable of connecting more of 15 sensors) located in key areas on the rig site, enabling connection to the system network with a reduced number of cables allowing quick and noninvasive rigsite installations.

STANDARDS SENSORS

Hook Movements
Rotary/Top Drive Speed
Rotary/Top Drive Torque
Hook Load
Pump Strokes Counter
Mud Pit Volume Ultrasonic
Conventional Mud Flow Out
Mud Weight In/Out Differential Pressure
Standpipe Pressure
Casing Pressure
Mud Temperature In/Out
Mud Resistivity In/Out
Fixed H2S Detector
Explosive Mixture Detector (LEL)