COMPANY PROFILE

NATIONAL UPSTREAM SOLUTIONS

MD Message

The oil and gas industry is changing at adizzying rate,and that creates areal challenge that accepted by NUS and reflected in its strategic goals and objectives.

Since the establishment of NUS, the company team has exerted its utmost efforts to transfer values into tangible outcomes; this is reflected in the company's considerable market share and positioning of its brand. It's our fortune to be executors of a national agenda, and a pioneer company in upstream services in the region.We believe that we are on the right path and we will continue.

NUS' business is guided by international standards in QMS and HSE using the latest technologies. We are fully committed to our social responsibilities and community development. We have adopted the customer focus system to optimize our relationship with all our clients and stakeholders, as well as leveraging our portfolio and strengthening our brand.

Since establishing the National Upstream Solutions Company (NUS), we have been working hard to get to reach our objectives, implementing our strategies and realize our vision.

Driven by our limitless ambition, core values and work ethics, we aim not only to lead the oil and gas upstream services industry in the region, but also strive to becomea trusted, household name at the international level.

Who we are

National Upstream Solutions (NUS) is one of SUDAPET subsidiaries. It has been established in Jan 2014 registered in SUDAN to provide drilling and upstream services in oil fields adopting the international standards for Oil & Gas Services

NUS Vision

To be a leading Champion of excellence through the provision of Safe Integrated Drilling & Upstream Services in Africa and Middle

NUS Mission

We are recognized for our uniquely comprehensive integrated upstream services covering a broad spectrum of amenities. We satisfy our clients requirements, while meeting our principal's objectives.

NUS Values

Excellence

Quality is not our ceiling. We plan for excellence in everything.

Commitment

We are committed to maximize the benefits to our stakeholders.

Integrity

We perform our business in an honest, ethical, reliable and responsible manner.

Social Responsibility

We provide job opportunities and enhance national competency. We are committed to preserving a clean environment within our operational area.

QMS

We are implementing an effective Integrated Management System to comply with the Quality management systems standards ISO 90012008-, Health & Safety OHSAS 18001 - 2007 & Environment 140012004- systems· requirements.
We consistently add value to our customer and we believe that QHSE is the responsibility for all, so constant and continuous efforts of a partnership of company management, employees, sub-contractors and their employees, the client and their employees are required.
NUS accepts its responsibility to lead in the promotion and good practice of its Quality, Health,
Safety and Environmental Programs and continually improve its performance.

QHSE Policy

- Continually improve the effectiveness of the integrated QHSE management system.
- Provide and maintain a healthy, safe and secured work environment at all times.
- NUS management is committed to prevent occupational accidents, injuries, and illnesses environmental impact and to manage risks.
- We are committed to allocate necessary human, technical and financial resources to achieve sustained and excellent operation.
- Strive to meet customer requirements and to enhance customer satisfaction.
- Comply strictly with all legal requirements and with other requirements that relate to our OH&S hazards and environmental aspects.
- Provide well planned and adequate training to ensure that our employees are competent to perform their tasks.
- Set Quality & HSE performance objectives, measure results, assess and continually improve processes, services and product quality, through the use of an effective Performance Management System.
- Have positive impact on environmental and social conditions within the communities

  around us.
- Communicate openly with stakeholders and ensure an understanding of our QHSE policies, standards, programs and performance.
- Reward outstanding QHSE performance.
- Encourage proactive involvement through support, training, education, and safe working Practices.
- Responsibility of developing this integrated program resides with National Upstream

  Solutions (NUS) Management at all levels.

  This policy is documented, communicated to all persons working under the control of NUS, available to interested parties and reviewed periodically to ensure that it remains relevant an appropriate to our organization.

Drilling Operations

The main Business of NUS in Oil field services is the Drilling services. NUS own three (3) Drilling Rigs and Six (6) Works over Rigs serving clients in Sudan. All NUS drilling and work over operation has been performed in a safe and environment friendly manner.

NUS is has a considerable market share in local market and running the business by qualified professional personnel.

NUS Drilling Rig

- D1 2000HP /SCR /TDS
- D2 1200 HP/ VFD/ VARCO TDS
- D3 1000 HP/ VFD/ VARCO TDS

NUS Service Rig

- NUS S1 450 HP
- NUS S2 650 HP
- NUS S3 350 HP
- NUS S4 450 HP
- NUS S5 450 HP
- NUS S6 450 HP

Integrated Services

In NUS we understand the challenges and needs of our clients in Oil & Gas industry; accordingly we offer solutions and consultation to help them make the best decisions for business. We proudly take the accountability to comply and raise awareness to our clients' QHSE standards, policies and local regulations.
Our aim as Integrated Services provider is to offer capable personnel, technology products, experienced advice, and delivers the highest quality of standard services to exceed our clients' satisfaction.

Mud Logging Services

Advance data a question and drilling monitoring systems capable of gas detection, electronic monitoring and database recording for a full range of drilling parameters.

- Experience crews and additional tools to monitor and analyzes both the geology of the subsurface information and the drilling parameters.
- Various combinations of services and crew sizes depending on customer requirement and well complexity.
- A portable laboratory (mud logging unit) that houses the hardware and software (mud logging system).
- Analysis conducted at well site during the drilling process and samples are returned to the operator after analysis.

Main Features for Skid Mounted Units

- Dimension: Dim 7, 60 MT x 2.60 MT x 2.80 MT – Weight: 12 tons.
- Pressurized Skid mounted construction.
- Power and environmental support system area: Transformer 63A - 25KvA (22 KvA warranty) - Input 480, 400, 220 V three phase current - output 230 V.
- UPS system 3 kVA on rack 19”.
- Emergency lights and hatches.
- Smoke and H2S gas detection and alarms
- Dual Air conditioning split equipment system 20000 BTU each – 3 Rack 19» 43U (panel 43Ux600x600).

Main Systems

Gas Detectors

- Complete Gas trap
- Gas Chromatograph FID (TCD) (Cycle <1 min) with computer, software, manual
- FID Total Gas Detector (0100- % Volume)
- Maintenance equipment for FID
- External siren ADF + External flashing light (Yellow H2S,Blue CH4)
- CH4 external sensors
- H2S external sensors
- H2S sensor on gas line
- GAS LINE (75 m)
- CO2 detector
- Hydrogen and air 0 generators (300 ml / min)
- Helium cylinder
- Helium Pressure regulator

Drilling Detectors

- Hole depth, bit depth, TVD, ROP
- Primary gas analysis, 1 minute sample time : Chromatographic analysis C1 to C5.
- Independent Total Gas detection, 3 different types :
- Infrared 010%- ou 020%- methane equivalent
- Infrared 010%- propane equivalent
- Flame ionization detector (FID) 0100%- methane equivalent
- Pit volumes - Individual and total volumes while drilling / tripping
- Pump strokes - total and strokes per minute
- Standpipe & Casing Pressures
- Hook load and Weight On Bit
- RPM & TORQUE
- Connection / Trip gas
- Gas ratio analysis
- Mud Resistivity In & Out
- 3 sensors for H2S Level
- Mud Density In & Out -OPTIONAL
- Mud Temperature In & Out – OPTIONAL

Mud Detectors

- Ultrasonic pit level sensors.
- Mud weight In (3 m) with support.
- Mud weight Out (1.5 m) with support .
- Pump strokes with supports.
- Flow out paddle .
- Resistivity In 3 m.
- Resistivity Out 1.5 m.
- Temperature In 3 m.
- Temperature Out 1 m.
- Junction Box (12 input available).
- Cable (100 m)

FORMATION EVALAUTION EQUIPMENT

- Binocular Microscope (10 x 30)
- Ultraviolet and White Lights (fluoroscope). Adapted for core frag inspection
- Sample dying oven
- Chemicals for analysis and evaluation of geological samples
- Additional equipment for geological examination of drill cuttings
- Shale density kit
- Calcimeter (quantitative carbonate analysis)

Experienced Crew

National Upstream Services experienced crews are specialist in manned Mud Logging Services.

NUS has developed its experienced workforce primarily through internal training and promotion hires junior personnel as sample catchers and trains them in accordance with our internal training programs. Sample Catchers are promoted to Mud Logger, Data Engineers and pressure Engineers/ technical support meet specific training and experience criteria required for advancement. NUS‘s requirements include internal and external training classes with centrally examinations. Also, they have minimum number of wells logged with excellent safety records and job performance.

Directional Drilling Services:

By being the first national company in Sudan to provide directional drilling services, NUS took the initiative to compete against the world’s top service companies in a highly demanding field. Quality DD/MWD/LWD borehole survey services provided by highly trained and experienced personnel armed with the latest technology products in the industry.

Our consortium is currently serving GNPOC in blocks 2 & 4 Abugabra Basin, Republic of Sudan.

Directional Drilling

A variety stock of Positive Displacement mud motors and ancillary equipment gives the flexibility to design bottom hole assemblies suitable to execute almost all types of trajectories from vertical performance to multilateral to 3D directional profiles in all sizes to our clients' convenience.

Measurement While Drilling

With Positive Pulse (TLOS - APS Tech.) and Negative Pulse (TLOS – GEOLINK Tech.) transmission capabilities at disposal, our MWD tools can provide reliable survey, continuous D&I, tool face, down hole vibrations and temperature measurements under various telemetry configurations.

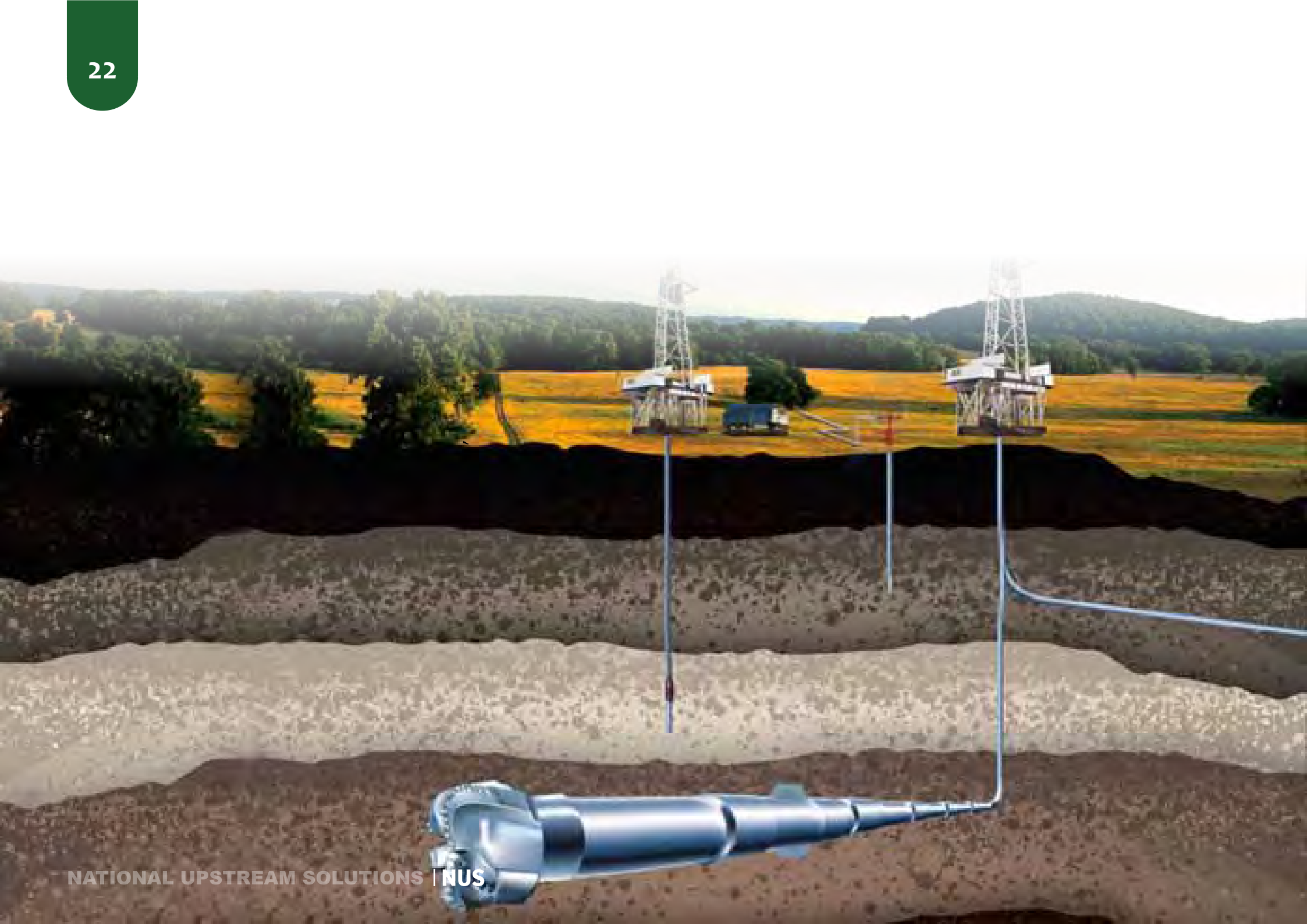
Logging While Drilling

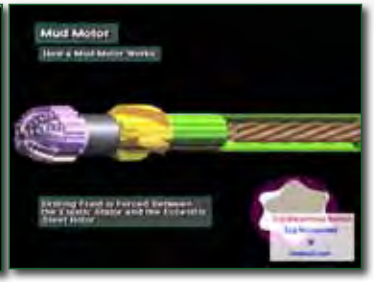
Knowing our clients' need for accurate real time formation evaluation and boundary detection services, we supply a long list of wirelessly transmitted logging while drilling measurements, including:

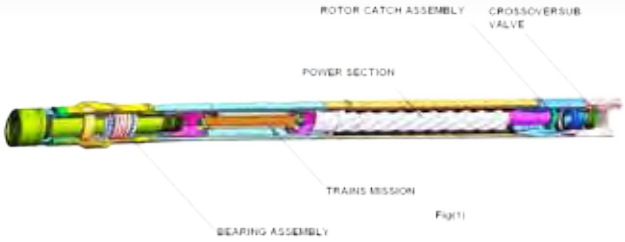
- Formation Gamma Ray.
- Formation Resistivity (Wave Propagation).
- Pressure While Drilling.

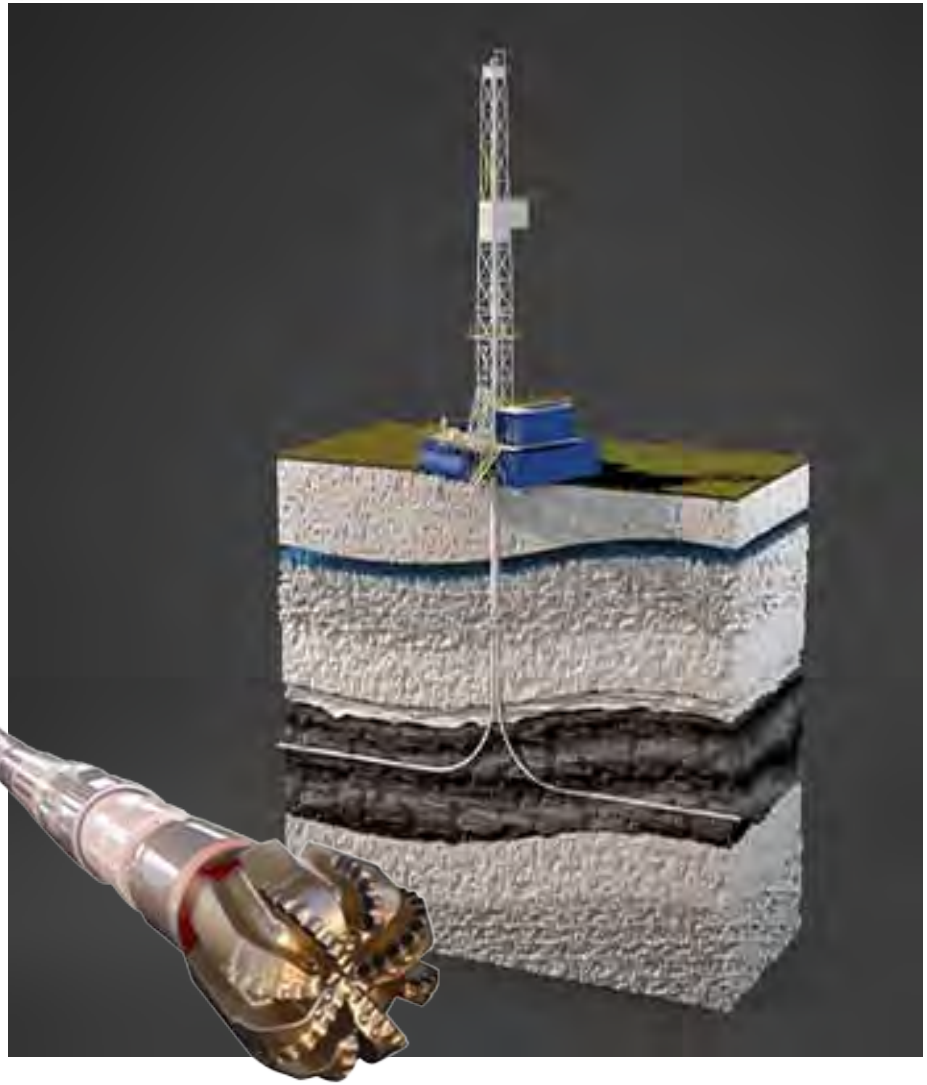
Surface Acquisition System

Complementing to DD/MWD/LWD services, our surface sensors and processing units are able provide a full coverage of - simple and derived – mechanical parameters and geological measurements to our clients' convenience.




Mud Motor


ROTOR CATCH ASSEMBLY
CROSSOVERSUB
VALVE
POWER SECTION
TRANSMISSION
BEARING ASSEMBLY



4.75 in. (121mm) WPR

Fixed-mount Pulser
Retrievable Pulser
with Stinger

3.5 in. (89mm) WPR

SureShot Lite with DTS, Laptop, Standard Rig Floor Display, Depth Encoder and Hook Load Sensor

Printrex Plotter

SureShot Ruggedized System with Integrated Server and Terminal

Low-temperature Rig Floor Display

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