

Since 2013

EXPERTS

AFRICA AND MIDDLE EAST

 <https://experts.management>

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INSPECTION - MANUFACTURING - SUPPLY & SERVICES



- DRILLING AND WORKOVER OPERATION
- MACHINES SHOP
- RIG INSPECTION & RIG AUDIT
- ADVANCED NDT TECHNOLOGIES
- RISK BASED INSPECTION
- CATHODIC PROTECTION



EXPERTS®

- DOWNHOLE TOOLS
- TANKS PIPELINES & PIPING CONSTRUCTION
- DRILLING RIG RELATED SUPPLIES
- OCTG SUPPLY
- CONSULTATIONS
- TUBING RUNNING SERVICES



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UGANDA :

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Phone : +256740292731 Phone : +256776200080



ABOUT EXPERTS COMAPNY

The establishment of Experts Company in 2013 to support different fields in Middle East and Africa.

Experts Company started the Oil & Gas related activities by registration in EGPC with scope of different inspection services and provides services to many different clients in Egypt.

Experts Company has its own machine shop for pipe threading, repairs and different flanges fabrications, manufacturing of drill stem subs, pup joints, couplings.

Experts Company is the sole API approved manufacturer of thread protector in Egypt With consortium with EPHH as local governmental company, Experts provides BHA thread protector, casing and tubing API thread protector, Premium connections protectors.

Experts Company has a fleet from downhole rental tools. In 2023 Experts Co; Started it's Operation in Uganda through E&E Experts Co.

EXPERTS CO recently awarded the workover campaign for Total Energies in Tilenga Field in Uganda .

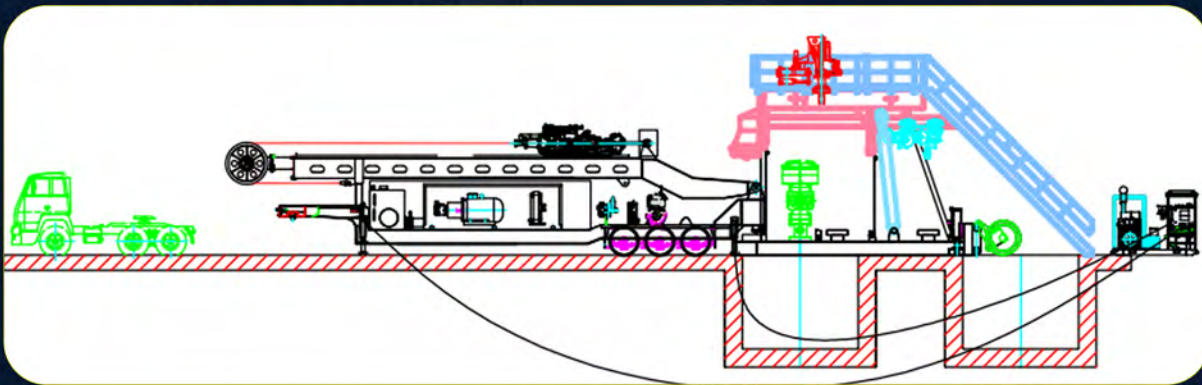
The campaign will be for around 425 Oil wells, Workover campaign is an integrated workover services including TCP, TRS, P&A, Fishing and Tubing, Cutter & Puncher.

We are the first workover company will start the workover operation in Tilenga Field in Uganda.

DRILLING AND WORKOVER OPERATION



Experts Co provides integrated package of workover services using a highly automated workover units, with compact design, minimal foot print, fast rig up/rig down/rig move.



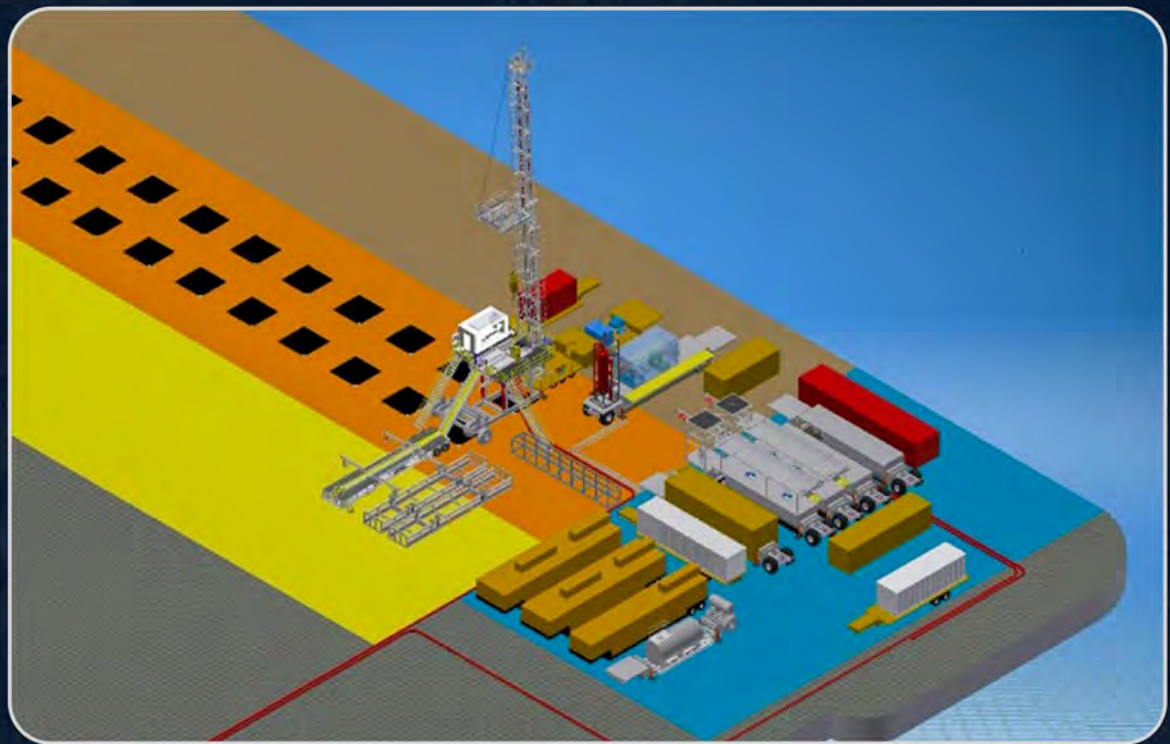
Our workover operation includes

- WBCO
- P&A
- TRS
- Fishing.

Experts Co

Provide drilling services through a consortium with SINOTHARWA DRILLING company in East & West Africa ;

Sinotharwa has a wide fleet of drilling rigs 1000 HP ; 1500 HP & 2000 HP .



SinoTharwa Drilling Co

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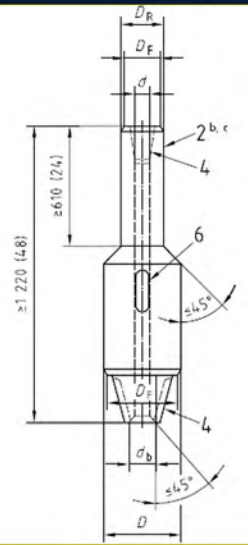
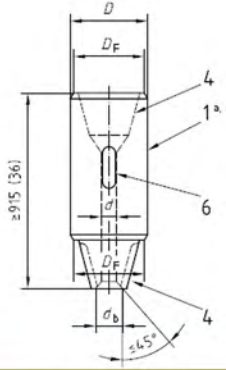
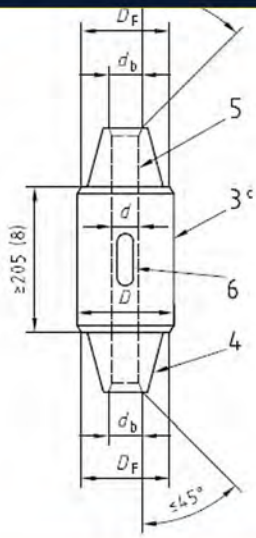
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MACHINE SHOP SERVICES



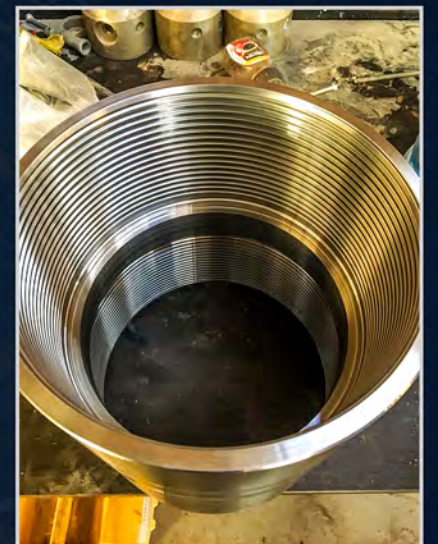
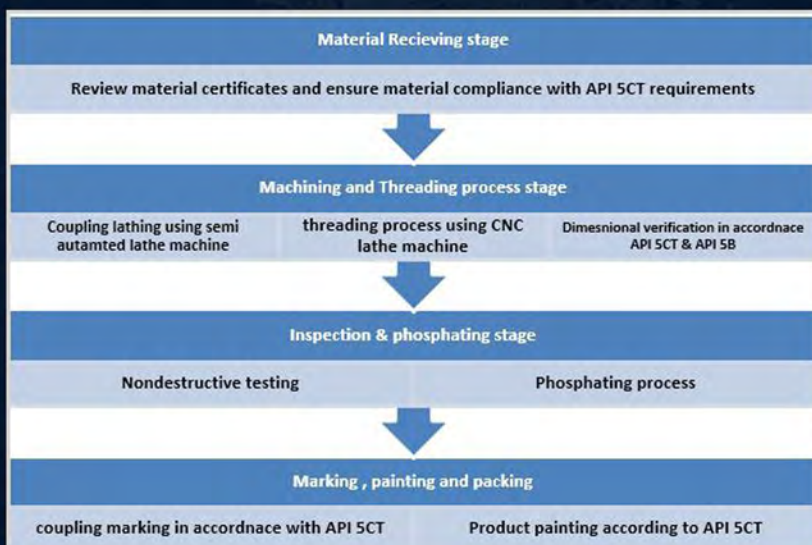
1- DRILL STEM SUBS

Our Drill Stem Sub designed and manufactured according to API 7-1 Specification (TYBE A / TYBE B / TYBE C)



2- TUBING AND CASING COUPLINGS

Our tubing and casing couplings designed and manufactured according to API 5CT Specification (EUE ; NU , BTC , SC) Connections from 2 7/8" to 9 5/8" OD



MACHINE SHOP SERVICES



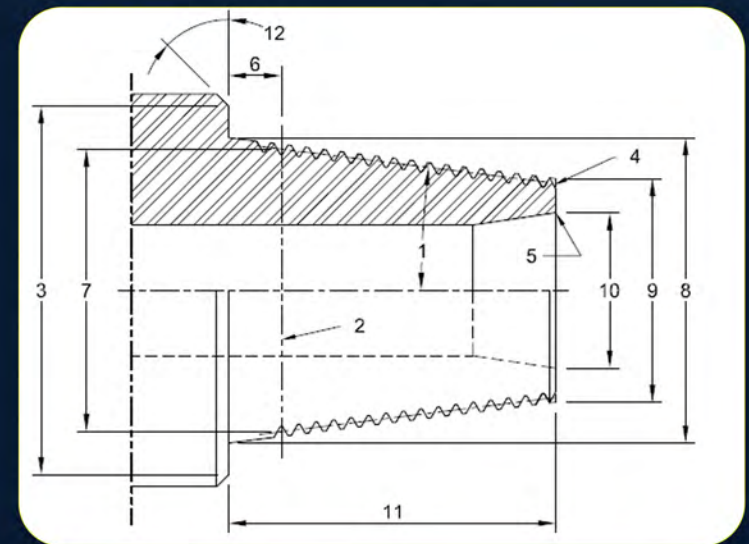
3- Rotary Shoulder Connections

Our Machine shop provides a wide range of rotary shoulder connections repairs and rethreading

- Drill pipes
- Heavy weight drill pipes
- Drill collars
- Rotary Subs.

The pipe connections threaded and repaired according to API 7-1 & API 7-2 Specifications and with the following types:

- Numbered Connections (NC)
- XH
- Full Hole (FH)
- API Regular (Reg)
- PAC



4- Tubing and Casing Threading

Our Machine shop provides a wide range of tubing and casings connections repairs and rethreading according to API 5CT & API 5B Specifications and with the following types:

- Butress connections
- EUE connections
- NU connections
- Round thread connections
- Premium connections such as vam , vam top , Dino Vam



RIG AUDIT



Rig Audit defined as comprehensive assessments by way of a detailed evaluation of equipment and systems. This inspection will cover an in-depth survey of the state of maintenance of the rig. It includes an inspection of all safety critical elements of the installation and all equipment that could be anticipated to cause operational downtime when a mechanical failure of that equipment occurs.



Our detailed independent Rig Audit assess a rig's condition and capability to meet your contract specification and operate within the envelope of your performance criteria.

TYPICAL WORKSCOPES INCLUDE ALL THE PARAMETERS OF RIG CONDITION WITH DETAILED EMPHASIS ON:

1. Function testing, pressure testing, load testing and insulation resistance checks for all critical equipment (pressure lines included) of the unit.
2. Structural inspection as well as Drilling string and Bottom Hole Assembly inspections are carried out only visually unless agreed upon by the parties.
3. Verification of compliance with IADC / API / ISO International Standards, Oilfield good practices and other recognised international code of practice.
4. Verification of compliance with OPERATORS minimum acceptance standard (i.e. Well Control Policy, BOP and Tubular requirements) and technical Rig Contract specifications (Personnel qualification requirements included).



EXPERTS.

RIG INSPECTION SERVICES



Rig inspection services to include each part of Rig to cover Full Rig



- | | |
|---------------------------------|---------------------------------|
| 1- Crown Block and Water Table | 17- Bulk Mud Components Storage |
| 2- Cat line Boom and Hoist Line | 18- Mud Pits |
| 3- Drilling Line | 19- Reserve Pits |
| 4- Monkey board | 20- Mud Gas Separator |
| 5- Traveling Block | 21- Shale Shaker |
| 6- Top Drive | 22- Choke Manifold |
| 7- Mast | 23- Pipe Ramp |
| 8- Drill Pipe | 24- Pipe Racks |
| 9- Doghouse | 25- Accumulator |
| 10- Blowout Preventer | 26- Annulus |
| 11- Water Tank | 27- Brake Bands |
| 12- Electric Cable Tray | 28- Casing Head |
| 13- Engine Generator Sets | 29- Cathead |
| 14- Fuel Tanks | 30- Catwalk |
| 15- Electric Control House | 31- Cellar |
| 16- Mud Pump | 32- Conductor Pipe |

This type of full inspection should be conducted closely or by representative of Original Equipment Manufacture or another manufacturer of structure representatives. All welds (100%) shall be visually examined.



ADVANCED NDT TECHNOLOGIES



1. Phased Array Ultrasonic Testing



Applications across a variety of industries including:

- Weld Inspection of pressure vessels piping and tubing
- Vessels and piping fabricated with composite materials
- Pressure vessel and piping welds
- Erosion/corrosion mapping.
- Corrosion mapping
- Turbine blades and Christmas tree designs

2. Pulsed Eddy Current technology

PEC TECHNOLOGY APPLICATIONS

- For in-service wall thickness monitoring – monitor the corrosion rates of critical equipment to facilitate the safe extension of run times and the reduction of shutdown frequency and duration.
- To annular rings: detect corrosion while atmospheric storage tanks are in service by measuring the wall loss of annular rings.
- In the splash zone: improve safety cost effectively when measuring caisson and riser wall thickness.
- Readings can be made through marine growth and up to 20 mm of coatings and corrosion products.



CORROSION UNDER INSULATION (CUI)

Without an effective CUI protection program, the damage can be difficult to detect, harder to mitigate, and comes with even greater cost. As the industry's truest one-source provider of asset protection solutions, We Have the resources, knowledge, and subject to implement and manage all phases of CUI program.

ADVANCED NDT TECHNOLOGIES



3. Long Range UT (LRUT) / Guided Wave

The aim of the inspection is to test long lengths of pipe rapidly from a single test point with 100% coverage of the pipe wall and to identify areas of corrosion.

Applications:

- Sleeved Road Crossings.
- Corrosion Under Insulation (CUI).
- Buried Pipe.
- Wall Penetrations
- Pipe Racks
- Corrosion under supports
- Offshore Risers and Caisson

Hundreds of meters of pipe can be screened in one day from one single location and the technique can inspect 100% of the pipe wall.

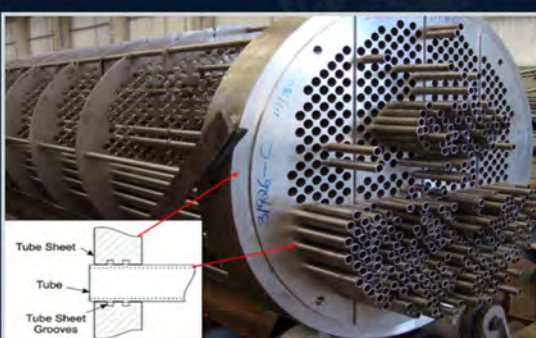
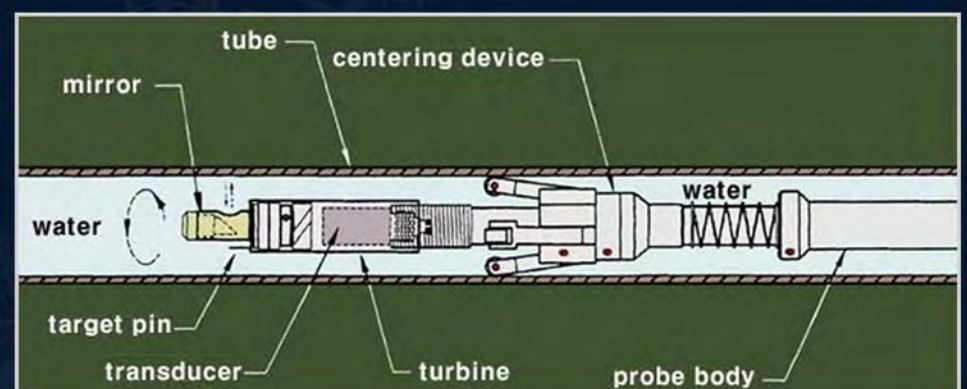


4. Internal Rotating Inspection System (IRIS)

IRIS is an ultrasonic method for the nondestructive testing of pipes and tubes.

Applications

- Condensers
- Boiler Tubes
- Feed Water Heaters
- Oil Coolers
- Hydrogen Coolers
- A/C Chillers
- Air Coolers
- Type Of Heat Exchanger



Baseline Inspection

Performing baseline inspections on new heat exchangers can ensure the integrity of the new equipment prior to being installed.

IRIS Inspection

utilizes the Internal Rotating Inspection System (IRIS) to perform examinations.

This inspection system is used at the request of the customer or when inspection results warrant the need for additional prove-up type information.

ADVANCED NDT TECHNOLOGIES



5. Rapid Motion Scanner (RMS2)



Inspection on ferrous structures such as

- Storage tanks
- Pipe-work
- Pressure vessels
- Risers and other critical equipment
- Turbine blades and Christmas tree designs

6. Magnetic Flux Leakage (MFL)

Rapid Inspection of pipes and storage tank floors for the Detection of corrosion and Erosion.

Main benefits of MFL

- High Speed, Cost Effective Inspection
- Automatic Defect Detection System
- Latest Generation Permanent Magnet Technology
- Separate Battery Operated Electronic Module
- Easy to Use, Cost-Effective Inspection Tool

Applications

MFL is used to detect metal loss defects (such as corrosion) in a wide range of settings.



RISK BASED INSPECTION “RBI”



RISK-BASED INSPECTION (RBI) is an asset integrity management methodology that uses the probability of failure (POF) and consequence of failure (COF) to calculate risk for individual assets. The risk and risk drivers identified for each asset are then used to prioritize and drive inspection strategies that define where to focus inspection efforts, which methods are most effective, and when to perform inspections.

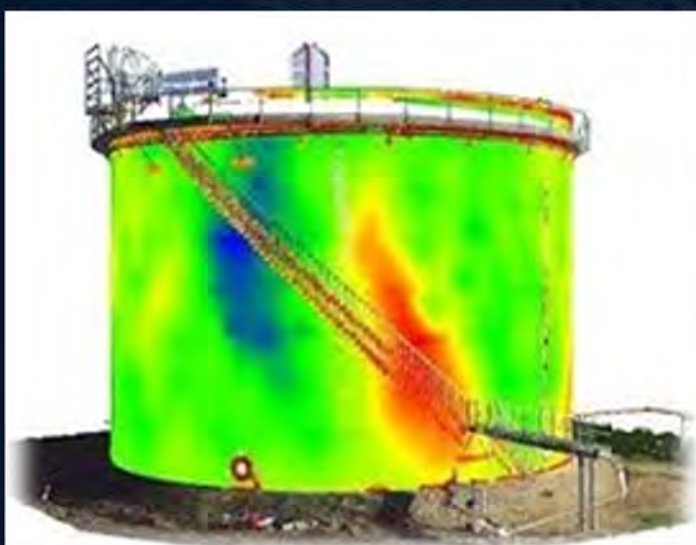
In considering the actual condition of the vessel and its current risks of failure, RBI can deliver significant improvements to inspection programs.



These benefits can be:

- Extension of intervals of inspection, in some circumstances extending inspection intervals many years beyond those that statutory inspection regimes specify, saving money.
- Reduction of the scope of inspections based on expected failure mechanisms. This can mean significant savings through simply less inspection tasks, through to the entire removal of inspection scopes such as internal inspections.
- Identifying unforeseen risks, corrosion study during RBI sometimes identify damage mechanisms not considered previously or not ever inspected before.

Our Approach and Services: We follow the principles of standards such as API 580 and API 581 and guided by professional engineers with significant experience in successfully executing RBI programs.



For the successful achievement of the desired outcomes from RBI programs we provide:

- Integrity engineering services to review asset inspection histories and create and optimize inspection and test plans (ITPs) using RBI processes.
- Failure Modes and Effects Analysis to make risk assessments of critical failure modes to which inspection programs can be focused.

Risk-Based Inspection (RBI) is an optimal maintenance approach utilized to inspect industrial equipment like pressure vessels, heat exchangers, and piping.

RBI serves as a method for making informed decisions to improve inspection plans.

CATHODIC PROTECTION AND CORROSION CONTROL



CATHODIC PROTECTION is commonly used to protect numerous structures against corrosion, such as ships, offshore floaters, subsea equipment, harbours, pipelines, tanks; basically all submerged or buried metal structures.

EXPERT CO. Provide cathodic protection services, equipment and materials including the Designing and installing cathodic protection systems for maximum long-term protection.

Equipment and materials include:



1. CATHODIC PROTECTION SYSTEMS

- Field surveys
- System specifications and designs
- Plans and detail drawings

2. SYSTEM MATERIALS AND CONSTRUCTION

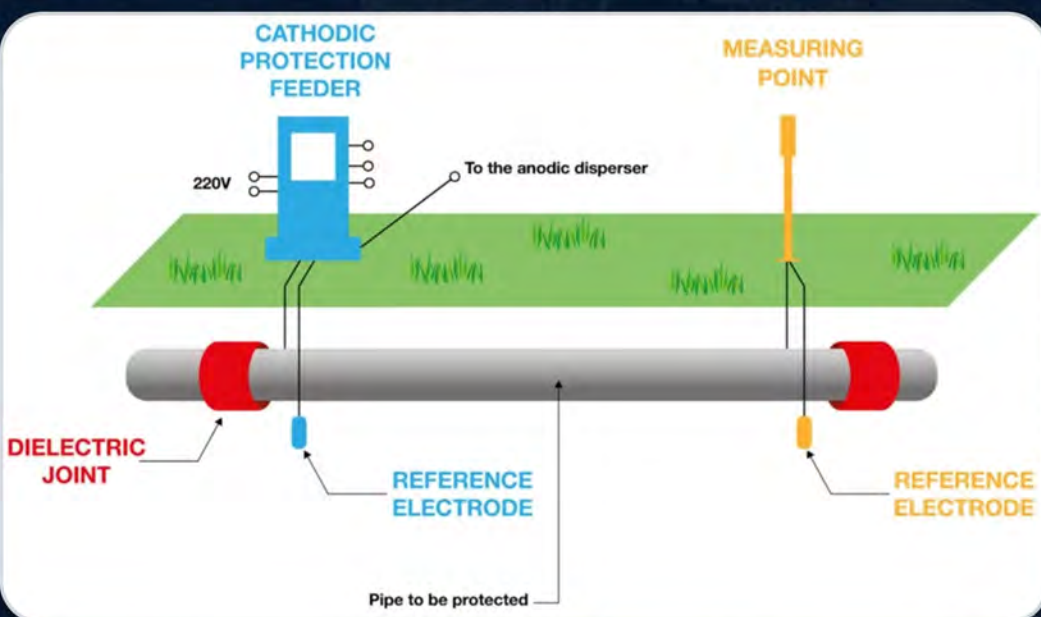
- Conventional groundbeds
- Deep anode groundbeds
- Distributed anode systems

3- POWER SUPPLIES

- Transformer – rectifiers
- Solar power systems
- Thermoelectric generators

4- INTERFERENCE CONTROL SYSTEMS

- Bond stations
- Auxiliary drainage systems
- AC interference mitigation
- DC interference mitigation
- Fault current protection



Program Implementation

- Aboveground Marker (AGM) Placement and Documentation
- Inspection Monitoring
- Inspection Analysis
- Information Integration
- Data Analysis and Correlation



A full suite of engineering services are available, from initial enquiry; through site survey, detailed design and engineering; to installation supervision, commissioning and handover activities.

DOWN-HOLE TOOLS



Down Hole Tools Experts Company support Oil fields with different types down hole rental tools such as the followings:



- 3 1/2" OD TUBING PH6
- 4 1/2" OD TUBING PH6
- 2-7/8" OD DRILL PIPE PAC HI-TORQUE
- 5" OD DRILL PIPE
- 3 1/2" OD HWDP(HEAVY WEIGHT DRILLPIPE)
- STRING STABILIZERS
- DRILLING JARS
- FISHING TOOLS



Experts Co provide MechLOK™ Drill Pipe Swivel with a consortium with Deep casing Tools Co for Tilenga Field operations in Uganda ; is the world's first mechanically lockable Drill Pipe Swivel.

It allows the drill pipe to be rotated independently of the work-string resulting in reduced drag, redistributed friction and mitigation of helical buckling. This in turn, allows increased weight at the tool to help push the liner string into the well to target depth.

This unique tool can be locked at any time, removes any hydraulic concerns, and also reduces the risk of injury during completions, as less manpower is required on the rig floor.

EXPERTS CO. CERTIFICATES AND CLIENTS



AFRICA AND MIDDLE EAST

