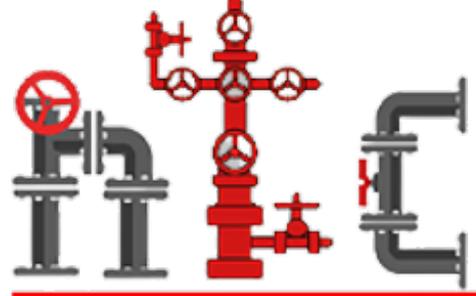


NTCSOS

20
23



SOS



New Technology & Consulting Special Oilfield Services
Services Set Packages

علامة

"مؤسسة ناشئة"



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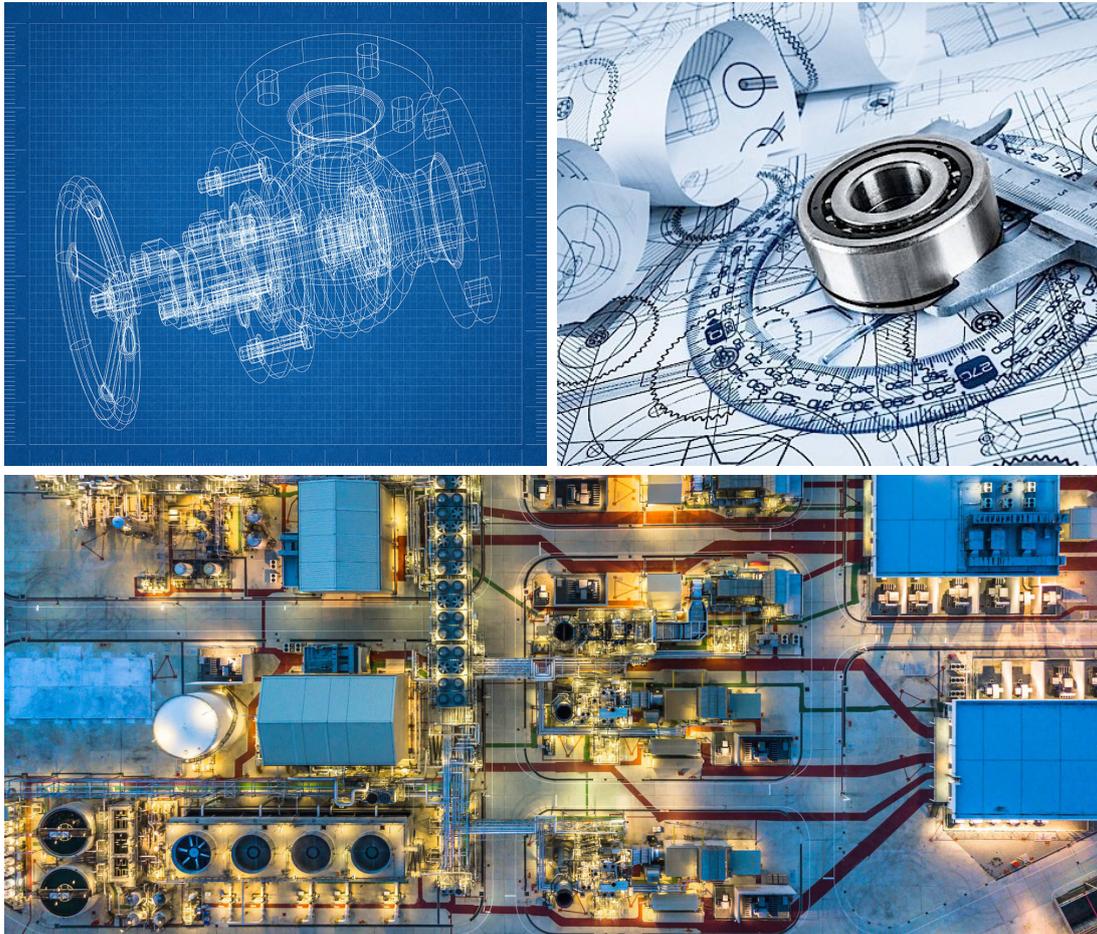
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RECRUITMENT SERVICES

ENGINEERING

NTCSOS's professional engineering team uses a results-driven strategy to generate engineering and design documents with final project construction, plant operations, and maintenance in mind. Working closely with all other stakeholders, NTCSOS's engineering division produces precise fabrication drawings to facilitate a consistent, turnkey experience.

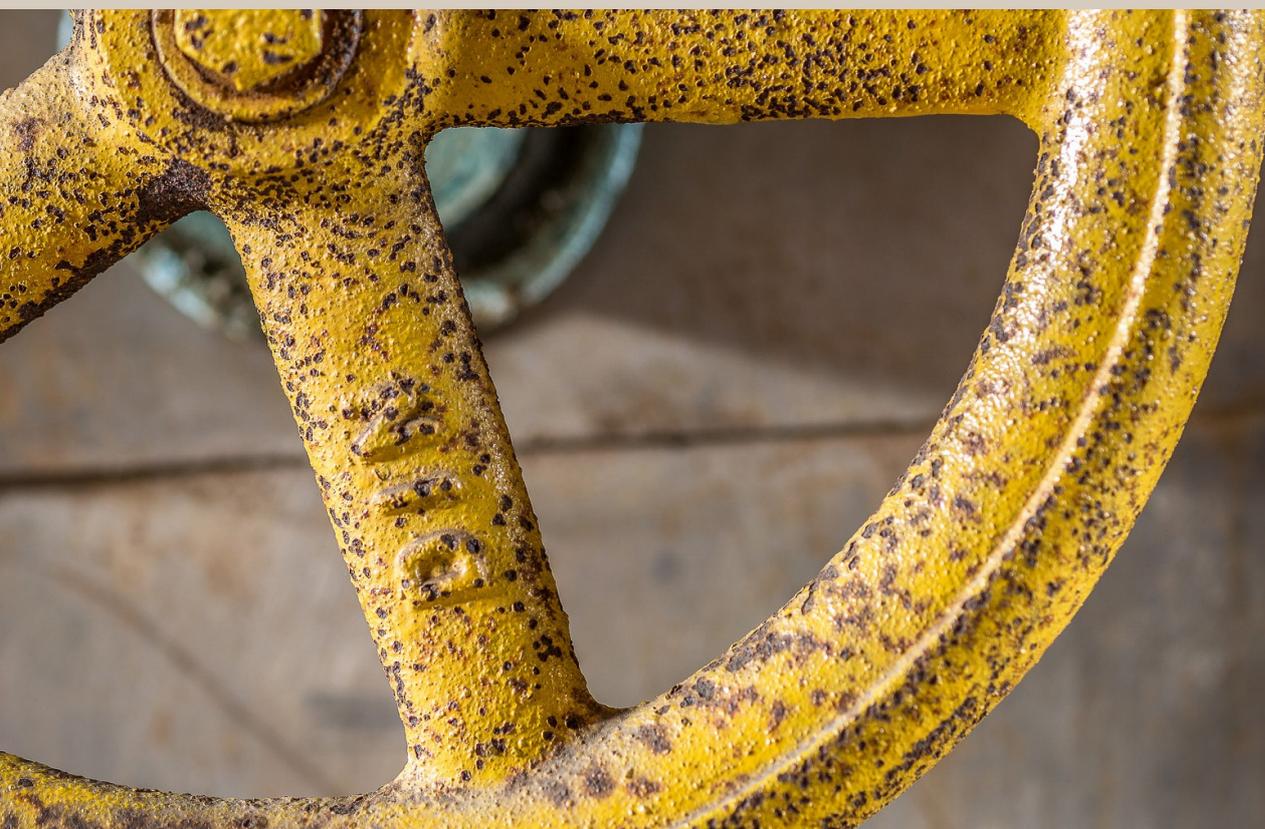
From initial construction bidding all the way through construction and start-up, NTCSOS engineers follow the project and work to minimize any conflict that traditionally arises between engineering and construction contractors.



CORROSION

There are two aspects to coCorrosion, including rust, is a worldwide problem that is gaining more and more attention. With aging infrastructures, the risk is mounting and threatens lives and property. Too often problems are ignored until it's too late. rrosion – prevention and repair. An important factor is that corrosion is irreversible...it always results in a weakened structure. While prevention works going forward, repair is the most pressing issue.

NTCSOS can provide a wide range of services including; Corrosion Assessment and Materials selection for: Downhole, OCTG, wellhead and Christmas trees Flowlines and pipelines Process equipment and Piping We also can assist you in; Failure analysis and Root Cause Analysis (RCA), Corrosion Management Systems – development, implementation and ongoing support as well as Fitness for Service and Life Extension Analysis.





PIPELINE SERVICES

Installing and maintaining oil and natural gas pipeline systems can be a major undertaking, but NTCSSOS is equipped with the innovation, capabilities and resources to meet any demand on time and on budget. Our crews have been a part of some of the largest oil and natural gas pipeline construction jobs across the continent and have laid thousands of miles of pipeline through some of its most challenging terrain. We have the expertise to safely complete any project while maintaining complete environmental compliance and minimizing impact to land owners.





WELLHEAD MAINTENANCE

NTCSOS with years' experience of working with wellheads systems and advise cost-effective wellhead maintenance services, with the knowledge of major wellhead manufacturers, we have the experience of all types of wellheads and wellhead equipment.

NTCSOS service line includes prepare and coordinate wellhead maintenance, replacement, refurbishment and tree installation.

Why choose NTCSOS?

Quick Response and Advise – we can rapidly mobilise technicians for leak testing, problem solving and grease valves.

Complete Service – With trained technicians, 20+ years of experience, NTCSOS is able to provide a complete wellhead maintenance service.

Our wellhead maintenance services include:

- 1. Inflow testing x-mas tree valves.*
- 2. Function testing of valves, chokes and actuators.*
- 3. Lubrication valves and flush valves.*
- 4. Pressure testing of wellhead valves and interfaces.*
- 5. Pressure bleeding / monitoring.*
- 6. Non-destructive testing.*
- 7. Visual inspections and well corrosion report.*
- 8. Maintenance databases, as build wellhead and tree information.*
- 9. Coordinate wellhead maintenance teams on annual testing and repairs.*

WELL INTEGRITY

We understand the vital role that well integrity plays in maximizing the profitability of oil and gas assets and storage assets. Supported by integrated expertise and a wealth of knowledge, NTCOS has more than 50 years of working in every aspect of the oilfield services business.

Well Integrity issues can arise at any time, it is crucial to be alert and prepared all the time.

Our Well Integrity experts can help you through a wide range of services:

Well Integrity Quick Look Assessment (WIQA)

Preliminary well completion design

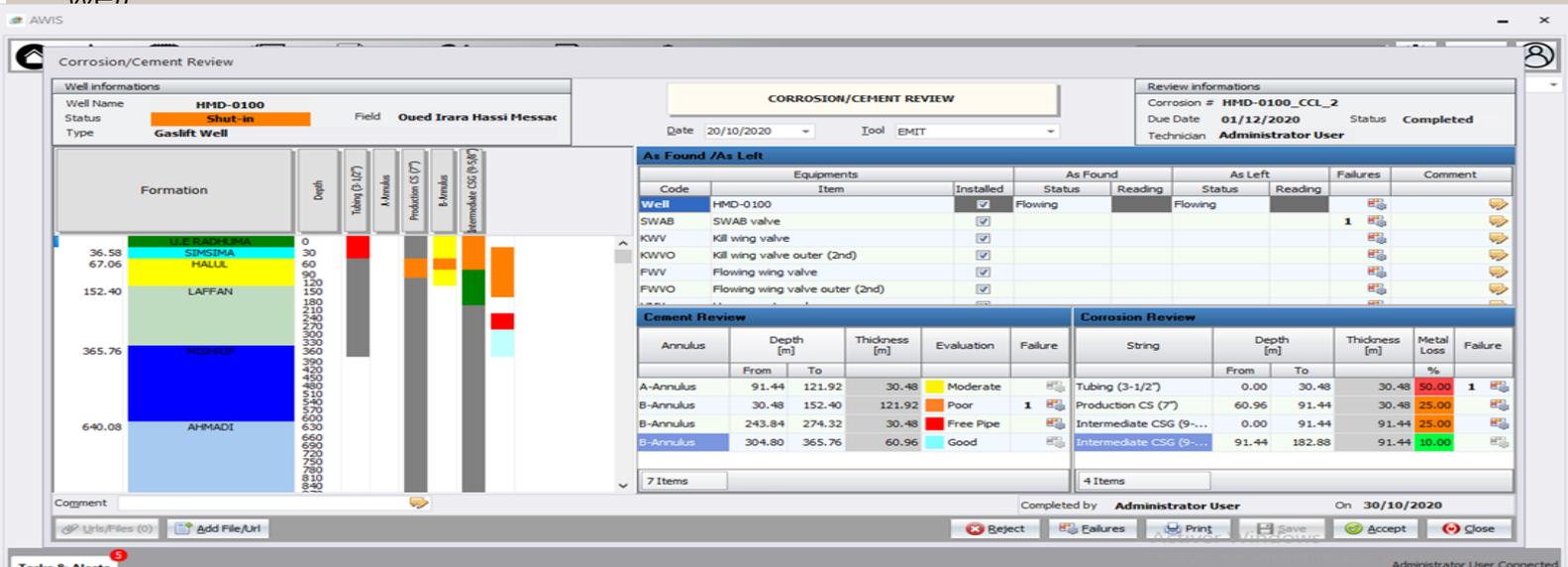
Well Integrity Management Systems (WIMS)

Gap analysis

MAASP reviews and calculations

Well examinations

Our experts developed innovative tools and practises to assist you throughout the life of the well



WELL ABANDONMENT



1. *Well abandonment is the last phase of the well life cycle and performing it the right way is critical to avoid post abandonment catastrophic incidents.*
2. *NTCSSOS provides a wide range of advisory services related to well abandonment including:*
3. *Preparation of turn-key well abandonment contract scope and requirements*
4. *Preparation of well abandonment design*
5. *Review of well construction design and provide recommendations that will allow optimum well abandonment at the end of the well run-life*
6. *Review well intervention reports for previously abandoned wells provide feedback on the*

WELL INTEGRITY AVANGARD®

NTCSOS Well Integrity experts developed the most reliable, accurate, all in one solution/software **AVANGARD®** to provide our clients with Live "Well Integrity Status" for all their assets.

AVANGARD® is flexible and customizable and can be configured as per clients policies and regulations including ISO 16530-1, Norsok D-010 guidelines.

AVANGARD® software offers the following

Managing well integrity KPIs

Manage communication between concerned parties

Measure implementations strength and weakness

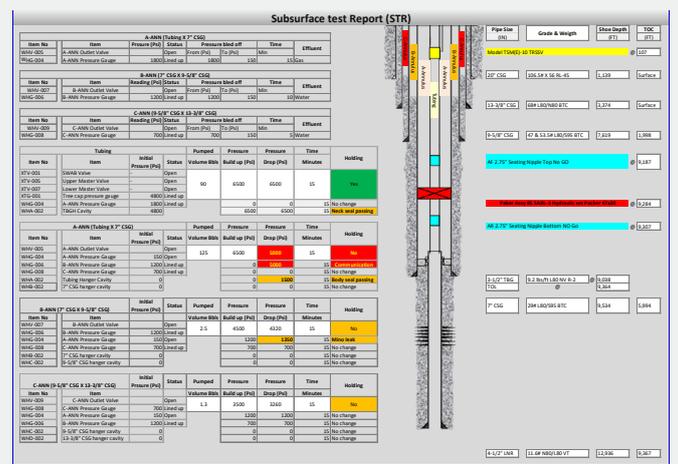
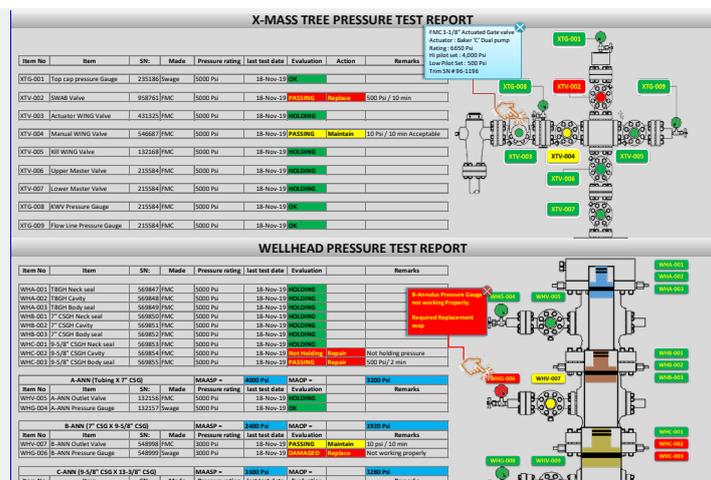
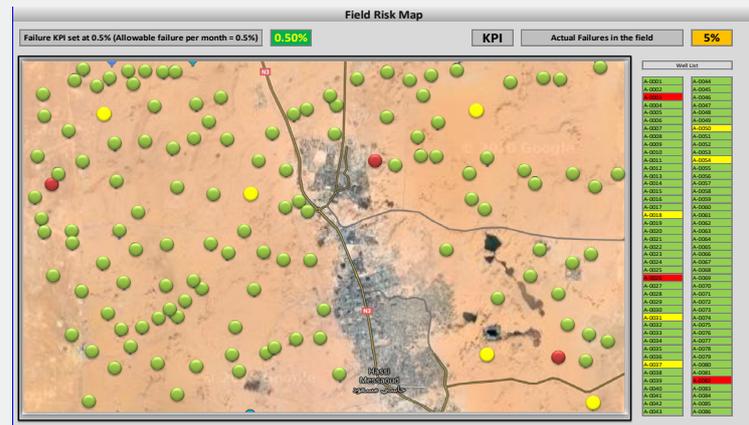
Visualize compliance to all users per level.

Support Well Integrity Engineers to do proper analysis.

Cement & Corrosion evaluation

MAASP calculation (Q2 – 2023)

Equipment optimization (Q4 – 2023)



WELL INTEGRITY – Training Services



Online Training (General Awareness):

- *Short training sessions (around 1 hour)*

Very useful for Well Integrity related topics as they are relatively new

- *Current available courses are:*

1. *Introduction to Well Integrity Management System*
2. *MAASP Calculation Basics*
3. *Well Integrity Testing*
4. *Well Abandonment*

Onsite Trainings:

1. *Basic Well Integrity Management*
2. *Advanced Well Integrity Management*
3. *Well Integrity Testing*
4. *Well Abandonment*



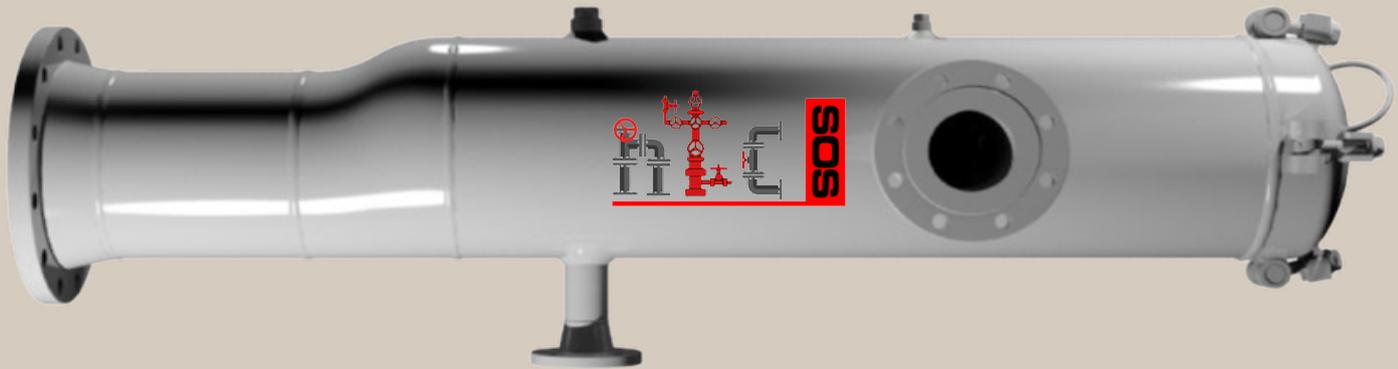


***“DESIGN, ENGINEERING &
FABRICATION OF COMPLETE SYSTEMS FOR
CHEMICAL INJECTION PROCESS”***

Applications

Biocides	Oxygen Scavenging
Chemical Dilutants	Polyelectrolytes
Corrosion Inhibitors	Pour Point
Demulsifiers	Depressants
Glycol	Scale Inhibitors
Hypochlorite	Water Treatment Chemicals
Wax Inhibitors	Methanol

PIG LAUNCHERS & RECEIVERS



NTCSOS offers complete

In-house engineering design for Pig Launching and Receiving Systems to meet the pipeline operator's pigging needs. Our launchers and receivers can be designed to accommodate scraper pigs, sphere pigs or smart pigs, or any combination of the three. These system packages include the Launcher / Receiver, Closure, Pig Signal, Bypass / Kicker Piping, Valves, Handling Equipment if required, and Skid Mounted to ease field installation.

NTCSOS conventional pig launchers and receivers are designed to meet the pigging requirements of pipeline owners and operators worldwide. Made for pipelines from 6 inches through 42 inches.

Product Benefits:

1. Easy to use and install
2. You do not need a special tool or experience to install
3. NTCSOS pig receiver and launcher is made of corrosion resistant materials with long life duration.
4. NTCSOS offers spare parts for all of its products during maintenance.
5. NTCSOS closures come with the two different choices of seals that are resistant to high pressure and prevent leakages.

PIG LAUNCHERS & RECEIVERS

ALL UNITS ARE DESIGNED AND FABRICATED TO RELEVANT REQUIRED PIPELINE AND VESSEL DESIGN CODES INCLUDING:

- **ASME U STAMP DIVISION 1 & 2**
- **ASME VIII**
- **NACE**
- **BS 5500**
- **ASME B31.3, B31.4, B**

RECRUITMENT SERVICES



NTCSOS Recruitment Services was established in 2019, with the objective of providing Recruitment Services, Contract Staffing and Manpower Supply with “perfection”.

As an innovative recruitment solution provider, we enable and assist our clients in their recruitment process to ensure that they achieve their business goals and success.

We work in close consultation with our clients to ensure that their staffing needs are sufficiently met to their complete satisfaction.





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