

PETROGALAXY

Oil and Gas field Services



www.petrogalaxy.com

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INDEX

- 1. Introduction.**
- 2. Main Service Lines.**
- 3. How we can help you.**
- 4. Quality Assurance Plan.**
- 5. Safety and Loss Prevention.**
- 6. Organization structure.**



1. Introduction

The purpose of this document is to give a brief description of Petro Galaxy's Industrial Services. Engineers are on hand to visit your office, or site, to discuss any of our services in more detail.

Should you require further information on any of our services please contact us at:

Address: 199 SOUTH ACADEMY, NEW CAIRO, CAIRO, EGYPT

Telephone: +20 26 135 455

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1.1 Company Perspectives:

We strive to serve our customers' needs with high quality, value added products and services. We will attract and retain the best people and foster an environment throughout our organization of openness and trust which empowers all of us to contribute to our full potential. We are committed to operate our businesses as a valued neighbor in the communities in which we reside. We believe that integrity and honesty are essential, and we will not compromise them in our business. We will continually improve everything we do more efficiently and better than our competitors. We strive to achieve superior return on equity and superior earnings growth for our shareholders, both short and long term.

1.2 Our Core Values

- Integrity:** Do the right thing with Excellency
- Creativity:** be an innovator
- Success:** Achieve leading results
- Improve:** Learn and achieve
- Knowledge:** Understand the customer needs
- Commitment:** Deliver high quality service
- Safety:** IS every person responsibility



2. Main Service Lines

Petro Galaxy is an innovative solutions provider to the downstream and midstream oil and gas business extending its capabilities into the power industry, metals, petrochemicals and several other specialized areas.

We have introduced many innovative process and pipeline services such as chemical cleaning, pipeline pig operations, and flange integrity management. Our services also extend to pre-commissioning with gross leak testing, hydro testing, cleaning and drying, with a variety of techniques to suit different situations. These services can be provided during the pre-commissioning and commissioning of new facilities or during turnaround maintenance of an existing facility. Packaging many of these services together allows us to engineer a complete solution and reduce overall job time and increase cost effectiveness.

Whether the project is in pre-commissioning, commissioning or maintenance we have a solution to meet our customer's demands and as long as the search for hydrocarbons continues we continue to push the boundaries of technology, introducing leading solutions that differentiate us from the competition. From one off jobs to turnkey project solutions, **Petro Galaxy** has what it takes to deliver repeatable quality.

Our key competencies are focused in our superbly qualified staff; strategically located bases and our competitively priced services.

Our fleet of dedicated process and pipeline equipment is considered a key factor in our prompt response to our clients' needs.

In summary **Petro Galaxy** Industrial Services specializes in the following domains and even more:

- 2.1 Pipelines services**
- 2.2 Process systems services.**
- 2.3 Chemical cleaning services.**
- 2.4 Pumping & specialist services.**
- 2.5 Mechanical Services.**
- 2.6 Coiled Tubing services.**

2.1 Pipeline Services

Pipeline services fall into four categories.

- I. Pre-commissioning of new pipeline.
- II. Commissioning of new pipeline.
- III. Maintenance of existing pipelines.
- IV. Revalidation of existing pipelines.



In practice, this work can be roughly divided into two groups, namely, work performed on **newly** constructed pipelines and work to be carried out on **existing** pipelines.

❖ **Newly Constructed Pipelines**

Petro Galaxy services can start immediately after the mechanical completion of the pipeline, or pipeline section, and end when the line is commissioned with product. Our services include, but are not limited to the following:

▪ **Gauging**

After normal cleaning operations it is necessary to prove that the pipeline has a continuous diameter, i.e. the absence of any significant dents, ovality or other defects caused during the construction phase. **Petro Galaxy** has gauging tools of proven reliability to meet your most demanding project specifications with the ability to monitor the distance travelled, velocity and pressures to more accurately determine the location of any detected damage.



- **Cleaning**

Cleaning the inner side of the pipeline to remove construction debris, sand, mill scale and weld slag. This can be done with mechanical cleaning aids, such as pipeline pigs, or a combination of mechanical and chemical cleaning, depending on the degree of cleaning required.



- **Flooding**

With our fleet of dedicated pumps; **Petro Galaxy** has the capability to flood and fill pipelines of diameter varying from 2"- NB to over 56"- NB with no distance limitations. Our injection systems have the capability and flexibility to meet your most demanding requirements.

- **Hydrostatic Testing**

Petro Galaxy's fleet of specialized pumping equipment is capable of providing highly controlled pressurizations to meet your requirements for testing. From simple calibrated instrumentation to Zone 1 DAQ systems, real-time monitoring and HVAC containerized DNV and ATEX certified units are available to ensure compliance with the highest test standards.



- **Dewatering**

This service ensures the removal of hydro-test water, residual seawater, and cleaning fluids from the pipeline, or process section.



- **Drying**

To dry the pipeline to the desired dew point so that it is ready for inerting and product introduction. Drying can be by desiccant dried air, or nitrogen.

Petro Galaxy has the largest fleet of high capacity high-pressure (20 bar gauge nominal) oil free compressors and desiccant driers in Egypt.



▪ Nitrogen Purging

To nitrogen purge means the replacement of an atmosphere of an undesired composition in an enclosure by another atmosphere of required composition. There is usually some ultimate objective when purging, such as rendering a vessel safe for receiving a hydrocarbon product or for handling a reactive material.



To achieve this there is an immediate objective of adjusting the vessel atmosphere composition to have, in the example mentioned, a maximum allowable oxygen concentration.

❖ There are four main types of purging:

- a. Displacement Purging. Suitable for pipeline and Open systems.
- b. Dilution Purging. Suitable Continuous replacement until desired oxygen content is reached Used in an open-ended systems where the exhaust can be continuously vented to atmosphere.
- c. Pressure Cycle Purging. Suitable to Used extensively for closed systems. This technique involves several pressurizations and depressurizations to achieve target levels.



▪ Commissioning Services

Petro Galaxy pipeline services extend to product loading. After an inert atmosphere is declared, hydrocarbon liquid, or gas, can be admitted to the system in a controlled manner. This is usually done via a choke manifold to control rate of pressurization and displacement pig speeds. With gas lines, additional facilities are provided such as condensate recovery, temporary vent systems, earthling and metering services.

Tracking services

To aid location fixing of specific features, dents or weld ingress etc. which can stop a pig, **Petro Galaxy** offer pulse transponders, which can be tracked on land or sub-sea, with ROV equipment. Additionally, magnetic units are used in hazardous environments requiring the maximum safety credentials.



❖ Existing Pipelines

When a pipeline is in operation, the inner surface of the line may be subject to scale formation, wax / paraffin formation, surface corrosion due to the type of product in the line, and the operating conditions. In addition, there may be situations where repairs or modifications have been carried out and it becomes necessary to revalidate the line for service in a safe and effective manner.

▪ Cleaning Services

At some stage in the life of a pipeline, it may be necessary to remove scale, or a deposition of contaminants such as wax, to return the pipeline to effective flow conditions. There may also be situations where paraffin's have been deposited or it may be a situation where circumstances call for a change of product service. A sample of the contaminant scale or wax is taken for analysis in our research laboratory. This analysis leads to the design of appropriate solvents and the production of detailed engineering procedures to be applied for correct removal of unwanted depositions.



Solutions are many and varied. **Petro Galaxy** has the necessary solutions to provide a complete service, which includes, but is not limited to:

- Gel Pig Technologies.
- Batching and Displacements.
- Pipeline Change of Service.
- Intelligent Pigging.
- Maintenance Programs.
- Pipeline Pig Tracking & Location.



2.2 Process systems services

▪ Commissioning Leak Test (CLT)

With the increasing productivity demands and high technology used in process facilities, the safer handling of high-pressure flammable fluids becomes a dominant operational requirement. Hence the ability to locate and repair all leaks becomes an asset.

Commissioning Leak Test (CLT) is the most accurate method of locating and quantifying system leaks where conventional testing methods have limited capability. Utilizing CLT is the best-proven method to ensure safety from hazardous leaks. Combined with **Petro Galaxy**'s capabilities, system integrity may be easily assured.



▪ CLT testing offers the following advantages:

- The oxygen content is reduced, thereby avoiding potentially explosive mixtures.
- The system is tested at its working pressure with a gas to closely simulate "live" conditions, thus allowing instruments to be calibrated.
- Nitrogen and helium gases are inert, non-toxic and perfectly safe.
- Helium leak detection allows all leaks to be located and repaired so that a nitrogen blanket can be left indefinitely in the system for "startup".
- Cost savings - valuable production time is saved by avoiding the use of "live" gas detectors and being able to repair leaks prior to start up.
- A full historical record is provided of all leaks found, the leak Descriptions, values and locations are provided.



▪ Hot Oil & Control Lines Flushing

Petro Galaxy has a hot oil flushing capability. During the pre-commissioning phases for turbine systems, it is usually necessary to ensure that all particulate matter is removed from the lubrication system oil lines and main seal oil lines.

Explosion proof pumps and auxiliary equipment provide a package which can deliver heated flows giving a Reynolds number >4000 . This ensures adequate entrainment of the contaminants. Add the high flow filter packages and particulate sizes <5 microns can be removed.

The presence of debris and contaminants in control systems is an obstacle to achieving a safe and reliable operation. The removal of debris particles from control systems utilizing **Petro Galaxy's** proven flushing techniques provide confirmation that all systems meet or exceed specified cleanliness criteria.

High velocity heated turbulent flow flushing systems to remove particulate matter from seal oil and lube oil turbine and compressor systems pipe-work.

▪ Nitrogen Pressure Testing

In situations, where hydrostatic testing is not a viable option, components or systems may be tested with nitrogen. **Petro Galaxy** implements extensive system design review and a detailed risk analysis before testing with nitrogen.



2.3 Chemical cleaning services

Petro Galaxy's chemical cleaning services assures that facility equipment run smoothly without interruption from contaminants such as mill scale, rust, construction debris, oil, grease, and other foreign materials that might get into the system during construction or modifications. Particles of any size represent a major hazard to the operability critical equipment such as compressors. we provide properly designed chemical cleaning programs to meet your pre-operational and operational cleaning requirements.

A typical generic Chemical Cleaning Procedure could be as follows:

➤ Water Flush stage

This is done to remove the loose scale and debris.

➤ Degreasing stage

This removes oil and grease from the inner surfaces of the system.

➤ Descaling stage

This stage is the heart of chemical cleaning operation in which the scale is removed from the inner surface of the process equipment subjected to the cleaning operation.

➤ Passivation stage

The process is used to convert the inner surface from a highly active state, after the scale removal, into an inert state, to resist further short-term corrosion possibilities.

➤ Preservation

During this process, the system can be filled with a suitable preservation material for long-term protection. The above procedure is just a sample of a commonly used practice. Each job is engineered according to the application, thus procedures alter according to the system parameters and the solutions used will vary with client specific requirements.



▪ High Pressure Water Cleaning

Petro Galaxy applies a high level of technology for the high-pressure water cleaning of equipment and lines.

This is an area where chemical cleaning would not be a cost effective method to achieve a high degree of cleaning.

Petro Galaxy equipment is subject to a very tight quality assurance program, prior to being put into operation, to ensure safe operating conditions for personnel and equipment. Below is a list of some of the high-pressure water cleaning services and equipment: -

▪ Jet Mole

Used in pipelines to remove extremely stubborn scale.

▪ Shot Guns

Short hand lances used to blast away deposits from tube sheets, pipe and tube exteriors.

▪ Bundle blaster

Moves water in large volumes to blast deposits from heat exchanger bundles, both inside and out.

▪ Retro jetting services

Automated three-dimensional cleaning of vessels, providing improved speed and safety.

▪ Bio-blast services

Safely removes virtually any coating or residue from even the most delicate surfaces without endangering workers or the environment.



2.4 Pumping & specialist services

There are some situations where specialty and experience are the only success factors required to achieve your operational targets. **Petro Galaxy** Industrial services have the extensive experience in pumping and specialty applications supported by a reliable equipment fleet necessary to provide solutions in the following areas:

- **Water Injection Services**
- **Hydrocarbon Fluid Pumping**
- **Transfers / Shipping Services**

➤ **Supply materials**

Petro Galaxy adopt the philosophy that before, during and after any service is performed some material content will be required and we aim to fulfill that requirement.

To aid our clients, **Petro Galaxy** has provided everything from stud-bolts to forklift hire. From zone-II generators to water trucks. From bottled helium to weld gasses. Whatever your needs we are versatile enough to rise to the challenge.

Petro Galaxy provides pipeline pigs. The pigs are manufactured in the United products including pig “Valves and Tees” and launchers and receivers etc.



2.5 Mechanical Services

Process systems integrity is dependent on a several factors. Among the most crucial factors lies incorrect joint assembly, improper tightening methods, ineffective flange tagging systems, poor flange facing and improper flange management

Petro Galaxy has some of the most modern lightweight high-powered hydraulic equipment available. Gasket or stud changes on major flanged valves for example, can be carried out with the use of hydraulic side wrenches, hydraulic socket wrenches, flange spreaders etc. Torque, tensioning and hydraulic jacks available.

❖ Hydraulic Bolt Tensioning & Torque Tightening Services:

Lightweight high powered hydraulic equipment Hydraulic socket wrenches, flange spreaders, nut splitter and Hydraulic lifting pads and jacks to 100 tonnes Large capacity high torque pneumatic impact wrenches Torque systems sockets' sizes from 19-mm ($\frac{3}{4}$ ") to 150-mm (6") nuts Tensioning systems cover stud bolt sizes from 19-mm ($\frac{3}{4}$ ") to 100-mm (4") diameter



2.6 Pipe line Services Equipment:

2.6.1 Multi Stage Pumps



- Head pressure: 15.2 bar
- Flow rate: 70 m³ /hr
- Explosion proof motor (EX) with panel suitable to be located at Zone-1.
- Explosion proof Start / Stop Push Button and explosion proof Running / stop indication lamps
- Pumps on skid mounted with lifting pad eyes
- Electronic motor 50 HP, 50/60 HZ, 440V.
- Explosion proof pump panel and Pump motor provides with explosion proof cable glands.

Pump explosion proof panel include extra spare hole with explosion proof gland.

2.6.2 Centrifugal and Chemical Mixing Pumps :

PGS provide wide collection of chemical mixing and C-pumps which met all the customer requirement.

Example of Our Pumps:

- 1- "C" Pump 45 PSI Max Head Pressure Godwin (Diesel engine) 180 M3 /hr 1
- 2- "C" Pump 80 PSI Max Head Pressure Stainless Steel casing body (Diesel engine) 270 m3 /hr

2.7 Well Intervention services:

2.7.1 Coiled tubing services CTU



This Truck Mounted Coiled Tubing Unit (CTU) Hydra Rig 480, which will have the capability of working with Coiled Tubing Strings of up to 1-1/2" diameter, used for:

- 1- Nitrogen lifting.
- 2- Acid stimulation and acid squeeze jobs.
- 3- Run memory gauges.
- 4- Sand clean out jobs.
- 5- DST jobs for new wells.

The unit is designed for continuous use in ambient temperature ranges of 0°C to 50°C

in severe oilfield environments (i.e., rough or muddy and sandy terrains). This unit will be supplied with the following basic components:

- One (1) Power Pack
- One (1) Injector Head 80,000 lbs
- One (1) Tubing Reel Assembly 15,000 ft
- One (1) Control Panel Assembly
- One (1) QUAD BOP
- One (1) QUAD BOP
- One (1) Stripper Assembly
- Multi 4-1/16" flanged Riser.

2.7.2 Nitrogen / Pumping Combo Unit



Our combination nitrogen and fluid pumping was designed to meet a specific demand on many types of coiled tubing jobs, there are requirements for pumping both fluid and nitrogen.

Advantage:

- 1- Triplex fluid pump 3-3/8" plunger
- 2- Two centrifugal pumps and 10 BBL tank
- 3- Discharge manifolds.
- 4- Liquid nitrogen storage tank 2,000 US gal
- 5- Nitrogen boost and triplex pumps.
- 6- Water bath vaporizer.
- 7- Both the nitrogen and fluid sides of the unit are controlled from a common, climate-controlled cabin located on the unit.
- 8- The unit is on a purpose-built drop deck rail trailer for reduced weight.

2.7.3 Dowel High Pressure Triplex Cement Pump



1. Pump detailed specifications:

1.1 Features:

- Max rate 8 BPM
- Max pressure 10,000 psi with 8,000 psi working pressure
- Skid mounted Dowell Schlumberger pump.
- Pumps on skid mounted with lifting pad eyes
- Delivers high pressure pumping services for operation.
- Detroit Diesel engine drive 8V with 475hp.
- HT-700 series transmission (hydraulic controls).

2.2 Application:

- Used for fracturing, acidizing, cementing, well control, and circulating operations which required High pressure pumping.
- Meters and pumps for mixing and displacement fluid.

- Pumping cement slurries

2.8.2 Batch Mixer:



Specifications:

A 70 BBL batch mixer with Detroit diesel driven hydraulic power pack and 'C' pump in an 8 ft wide single skid construction containing one each tank.

- 1 each – 70 bbl batch mixer tanks built into a single piece standard skid with offshore crash frame and top lift.
- One 5 x 5 Centrifugal mixing and circulating pump.
- Agitator is industry standard "Poclain" driven with a Veljan open loop hydraulic system of pumps and motors.
- The unit is fitted with a full offshore crash frame inclusive of top lifting points and lower lift

or drag points for land and truck operations.

- Detroit Diesel In line 6 Cyl diesel power of 240 hp with hydraulic pumps and motors provide adequate power for all mixing operations.

- Engine monitoring and control is also incorporated in to the power pack control panel.

2.8.3 Stainless Steel Twin Filter



Description:

Our Dual Vessel Cartridge Unit is the most commonly used filter cartridge unit in the oilfield industry. This, offshore proof, skid-mounted filter unit equipped with all necessary valves and safety features. Our Dual Vessel Cartridge Unit offers the most cost-effective way to clean-up all possible oilfield fluids. It allows you to simultaneously filter with one vessel and easily change the used cartridges.

System Design Features

- High pressure flanged connection
- Two each 24" stainless steel vessels.
- Standard type: 50 cartridges per vessel.
- Suitable for non-hazardous fluids (Fluid Group 2)



- Innovative push lever and swing-away vessel lid, easy to operate.
 - Swing-bolts and nuts for quick opening.
 - Self-sealing, service friendly cover gasket.
 - 4" Butterfly Valves (SS-Disk). Easy to operate.
-

3. How we can help you

3.1 Experience

Petro Galaxy has been engaged to satisfy the customer needs in the industrial services business and comply with oil and gas standards.

Petro Galaxy has and continues to pioneer many of the techniques, chemical procedures and equipment used in the industrial services business. Our technical capabilities and on site flexibility are well known.

Petro Galaxy employs engineers, chemists and operators with a wide range of experience in multiple industrial services in Egypt.

3.2 Full Service Capability

Petro Galaxy provides a full service capability, which few other contractors can match the following:

- a. Pre-engineering in the design phase.
- b. Engineering procedures approved by client prior to operations.
- c. Safety, quality and management systems of international repute.
- d. On-site flexibility, logistics support, multiple services.
- e. Updated as-built information and project recommendations during the construction phase(s).
- f. World class reporting structure with detailed after job reports.

3.3 Pre-Engineering

Pre-engineering is carried out in conjunction with client, client contractors and sub-contractors where nominated. The result produces detailed cooperative practices, which can be scheduled to eliminate task conflicts.

3.4 Safety, Quality and Management Systems

Petro Galaxy is a company who values their clients. To ensure that we attract new business and maintain the highest standards **Petro Galaxy** strives to continuously improve deliverables. To achieve and maintain the highest standards ISO 9002 forms the backbone of our quality philosophy. **Petro Galaxy** regards safety of paramount importance. We endeavor to observe the highest standards and monitor those standards through our quality system. The result for our clients is the best safety record in the territory. accurate and available for scrutiny. The implementation of safety and quality is an integral part of our management policy. **Petro Galaxy** management system provides for full traceability. The management system forms an important part of our business practices.

3.5 Environment

Now, more than ever, it is important to protect our environment.

Petro Galaxy instill the importance of HSE into all personnel in a major effort to eliminate incidental, accidental, willful and harmful actions.



4. Quality Assurance Plan

4.1 General Policy

Petro Galaxy is dedicated to being the best industrial services company in all segments of industry, and will at all times operate in the most professional manner possible. We will do our utmost to optimize our results while minimizing chances of causing harm to our employees, our clients, and members of the public or the environment.

4.2 Objective

To assure that quality is planned for and obtained to agreed standards during the execution of the contracted service.

4.3 Scope

To assure that the means are provided to enable the objective to be achieved
By:

- a) The development of job descriptions, work instructions and appropriate procedures by **Petro Galaxy**.
- b) The monitoring, review and audit of conformance to agreed procedures.

4.4 Method

All activities must ensure that specific requirements are defined and met by:

- a) Control of quality by the **Petro Galaxy** service teams.
- b) Monitoring and reviewing the established quality system by assigned **Petro Galaxy** personnel.
- c) The audit of the service teams during the execution of the work by **Petro Galaxy** management personnel.

4.5 Personnel

The responsibility for the preparation of the procedures rests with the person or persons responsible for the activity in question, and shall be written in compliance with operations policies and appropriate clauses of internationally accepted Quality Assurance Standards, e.g. ISO 9000.

5. Safety and Loss Prevention

The company has a responsibility to protect and safeguard its employees and other people affected by its operations by preventing exposure to unnecessary safety risks and health hazards. It will promote at all-time safe working practices, the safe use of tools and machinery and as far as practicable will maintain hazard free work environments.



5.1 Employee Responsibility

As a condition of employment every employee is expected to:

- a) Behave in accordance with the letter and the spirit of this policy and cooperate fully with the Company in the promotion of health, safety and environment.
- b) Act with due care for the health and safety of his/her self, fellow workers, client company employees and anyone else who may be affected by his/her acts or omissions at work.
- c) Promote safety awareness with all safety equipment and protective clothing supplied by the Company or Client Company.
- d) Report all accidents, regardless of severity, and regardless of whether there is personnel injury or property damage.

5.2 Organization

- a) The prime responsibility for health & safety rests with the Division Director of **Petro Galaxy**'s Industrial Services on a day-to-day basis; he may delegate responsibility to subordinate line managers.
- b) Operations Managers are responsible for all health and safety matters at their work locations. They have the responsibility to provide all special equipment that may be required to perform operations in a safe and professional manner.



5.3 Job Planning

- **Petro Galaxy** representative must get customer agreement on safe procedures, equipment and materials required for the job. The location should be surveyed and protection provided which corresponds to the risks identified from the HAZOP.
- **Petro Galaxy** Supervisor must plan, arrange and locate equipment to minimize personnel exposure to pressure, chemicals, poisonous gas, fire, explosion or any other hazard. Equipment must be arranged so that loss will be minimized in the event of an accident.
- **Petro Galaxy** Supervisor must thoroughly survey the location upon arrival for any changes to hazards identified during the HAZOP survey. These hazards should be corrected if possible and discussed at the pre-job safety meeting and toolbox talks.



6. Organization structure.

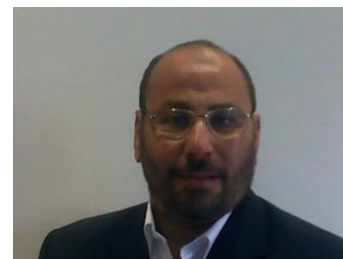
Our employees have extended experience of all the above services in our company.

Start form maintenance, manufacturing, engineering support and operation excellences.

All staff has wide experience inside and outside Egypt (Angola, Iraq, Lybia, Oman, Saudi and Kuwait) which give us better understanding to run our company and business with comfort and ease.

Below is brief introduction for our team.

Magdy Hussein Osman



- Experienced in most of Oil Operations Equipment, such as Cement Equipment, Logging Equipment, Fracturing Equipment, Coil Tubing & N2 Equipment and Offshore Skids Equipment for all PSL (Product Service Line).
- Experienced in System Application Products (SAP) for tracking all maintenance & repairs activates relating to the equipment
- Experienced on job training for Maintenance Teams & Leadership Team for building up a very strong maintenance department
- Experienced in locations management and leading locations leadership teams to improve all PSL operators' skills to be fully aware about the required skills for improving equipment operation, so the PSL can get high quality operations of the equipment, with specific focus on Health, Safety, Environment (HSE) and quality initiatives.
- Experience during my practical period as a base manager, to supervisor the service quality and all the lifting operation and the regular inspection required for all PSL's Equipment, skids, baskets,etc.
- Experience for complete fabrication & design of some of the oil field equipment such as: - Batch mixer, Triplex high pressure pumps, Centrifugal pump skids and the fabrication of baskets, containers, labsetc.
- High experienced in training centers for all PSL's operators such as –
 - Equipment Hydraulic systems
 - Equipment Operation Training for all PSL's equipment
 - Operators Mechanical Skills Training
 - General Mechanical Skill & Trouble shooting for all PSL's equipment

Waleed Mahmoud El-Sheikh



Armed with significant work experience in a supervisory and engineering role years of service within the oil and gas industry, especially competent with Frac/acid, Sand Control, CT Services and PPS operations, communicative in getting technical information, high ability for research and problems solving, high ability for discussion and negotiation, active in Leadership.

Project management:

Assess, analyze need, plan requirements for and execute significant field projects; highly competent with crisis management situations; a proven “go to” technical analyst and problem solver.

- **Decision-making:** Identify technical and operational issues while recognizing complex internal requirements; skilled and completely competent in making key service improvement decisions.
- **Maintenance and repair:** all preventive maintenance and repair needs.
- **Improvements:** Continually review current systems and make on-going adjustments to procedures.
- **Interaction:** Provide ongoing communication with management officials and owner representatives.
- **Troubleshooting:** Investigate complex production issues and execute corrective measures.



Yasser Rezk

- Currently working in Petrogalaxy as technical director.
- Up to 2016 working in Sahara Petroleum Services (Sapesco) as Services Line
- director of the industrial services division. He has more than 23 years of experience in downstream and midstream oil and gas business in the Middle East.
- Started working in the Oil and Gas sector in 1991 joining KHALDA Petroleum Company
- as a chemist in the oil, water and gas quality control lab. Joined Sapesco at the end
- of 1993 as Industrial Services Field Engineer. He progressed through his field career as a Senior Field Engineer, then he became in charge of SAPIESCO Industrial Services operations supervisor within Egypt in the pipe line and process service activities for
- over 12 years.
- In 2000, he participated as a project manager in Western Desert Pipeline System for BAPETCO Initial drying, final drying and purging of 235 km of 34 Pipeline in addition
- to 42 Kilometers of 26" and 3" Kilometers of 22" pipeline to the Western Desert Gas Complex.
- In 2005, he participated as a project manager in 36" Arabian Gas Pipeline
- recommissioning services project in Jordan.
- In 2006, he was promoted and transferred to Sapesco Corporate as sales
- Manager to carry out and manage the industrial services sales and marketing activities within Middle East region.
- In 2009, he promoted to project manager handling the industrial services line activities in Syria and Jordan regions.
- Received his B. Sc. Degree in Chemistry from Faculty of Science - Suez Canal University in 1989, with a special course grade in the corrosion monitoring and control in the oil fields industries.



Mostafa Ali Ismail

Bachelor in Mechanical Engineering from Cairo University and achieved a Master Degree in Technical Engineering from Halliburton University.

Cementing & Stimulation Service Leader in Cairo Base

Offshore cementing Service Leader assigned to ARAMCO in K.S.A

Cement Engineering Design career as Technical Engineer

Senior Technical Cementing Engineer assigned to ADCO operations (UAE) for both Cementing and Drilling Fluids reporting to TOTAL E&P Technical Support Drilling Team Leader.

Product Service Line (PSL) Manager for Cementing and Stimulation services:

Technical and commercial tender preparations, logistics management, assure annual business plan achievements on a monthly, quarterly and annually basis, profit and losses control through Hyperion system and SAP. In addition, I am in charge for stimulation including coil tubing, Nitrogen and Fracture operations as well as Down Hole special Tools. Evaluated operation tasks and advised safety officers on checkpoints for safe execution.

Middle East Regional Operation Support Manager for Pressure Pumping Division:

Enhancing and improving the service quality and the operation performance amongst the region, modernizing the equipment level to be competent with the competition, bring up to date the regional operating standard and process to challenging level, together with formulating competency program for MER Employees, auditing all MER Countries. Technical and commercial tender preparations, logistics management, assure annual business plan achievements on a monthly, quarterly and annually basis, profit and losses control. In addition, matching and applying latest BHI-PP technologies with Kuwait needs, Evaluated the operation tasks to be aligned with the company HSE&S policies and management vision.

Tarek Abd El Latif



Senior operator at SAHARA petroleum services

COMPANY (SAPESCO) From 1998 up to 2007

Stimulation supervisor and Coil Tubing at Baker Hughes

In Iraq From Jan 2014 To 1 Jan 2015

N2 and stimulation Supervisor at Halliburton Saudi Arabia

from Oct 2007 to Dec 2013

- Trouble shooting units on location.
- Work with Hydra Rig
- Perform Coil Tubing Jobs.
- Perform sand clean out and N2 lifting jobs
- Perform all kind of Pipeline services and hydro test
- Ability to operate all kind of N2 units.
- Ability to maintain all the operation problems for the units on location.
- Focal point of the mixing operation for 26% and 28% CSA acid in the stimulation jobs.
- Operate, maintain and perform packing for all pumping units.

Working as:

- Shift supervisor in Arabic pipelines project Egypt and Jordon.
- Stimulation supervisor in Lukoil & Petro China & DNA Company in Iraq.
- Stimulation supervisor in Baker Kuwait.



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