



CLEAR SOLUTIONS  
for complex fluids

CETCO

ENERGY SERVICES

*A Minerals Technologies Company*

**CETCO ENERGY SERVICES** offers a comprehensive portfolio of products, services, and innovative solutions to handle COMPLEX fluid challenges.

With over 20 years of experience in Oil & Gas and Industrial Wastewater sectors, we manage fluid projects worldwide—from exploration to production to decommissioning.

Our customized engineered solutions, patented technologies, and operational experience makes CETCO the CLEAR choice for all your fluid treatment, well testing, and wastewater requirements.

We provide an array of service and solution offerings for complex fluids:

- **Services** - Water Treatment, Process Equipment, Well Testing, Intervention Services and Pipeline
- **Solutions** - FPSO Produced Water System Analysis, Slop Tank Treatment, Engineered Troubleshooting solutions for complex water treatment problems, Fluid Properties Optimization
- **Technology** - Innovated Patented technologies
- **QHSE** - World class safety and environmental performance
- **Operational Excellence** - Used extensively to improve all aspects of our company in order to maximize value for our customers
- **Global Presence** - 14 locations in 10 countries

We are a wholly owned subsidiary of Minerals Technologies Inc (NYSE: MTX), a New York-based resource and technology growth company. MTI develops, produces and markets worldwide a broad range of specialty mineral, mineral-based, and synthetic mineral products and services. MTI serves the paper, foundry, steel, environmental, Oil & Gas Services Sector, polymer and consumer products industries.



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# WATER TREATMENT

## APPLICATIONS

From the well to the refinery, CETCO ENERGY SERVICES provides water treatment services for a wide variety of applications:

- Produced Water Treatment and Polishing
- Well Stimulations and Acid Flowbacks
- Initial Well Flowbacks/Completions
- FPSO Water Solutions
- Decommissioning Wastewaters
- Pipeline Services:
  - Treating Hydro Effluent
  - Routine Cleaning
  - Commissioning/Decommissioning
  - Treating Effluent from Pigging Operations
- Heating/Cooling Medium Treatment
- Deck Drainage
- Drill Cuttings
- Brine Filtration and Recycling
- Methanol & MEG Filtration
- Workover Fluids
- Process Equipment for Produced Water
- Brownfield & Greenfield Improvement

## THE CETCO ENERGY SERVICES PROCESS

- CETCO ENERGY SERVICES provides a unique and effective service to help customers manage unusual or temporary situations such as off-spec discharges. Drawing on years of experience in water treatment, we have designed a rental fleet that meets a vast variety of flow rates, temperatures, and pressures.
- Our technical service teams have extensive training and are available at 24 hours' notice. CETCO ENERGY SERVICES Water Treatment specializes in the removal of hydrocarbons, solids, toxic materials, heavy metals, and other contaminants from oilfield wastewater streams.
- CETCO's highly-trained personnel optimize our equipment's performance to bring you quality service and products. Utilizing our processes, our customers remain compliant with overboard water quality regulations while reducing their waste disposal costs.





## **BENEFITS OF USING CETCO WATER TREATMENT SERVICES**

- Ensure overboard compliance
- Reduce waste by on-site treatment, which cuts logistics and third party processing costs
- Maximize production by isolating specific well work activities
- Ensure maximum asset return by treating online
- Avoid costly shutdowns
- Specialized filters available for specific applications

## **PATENTED TECHNOLOGY**

CETCO ENERGY SERVICES utilizes different technologies based on our customers' requirements. With patented media such as Hi-Flow<sup>®</sup>, CrudeSorb<sup>®</sup> and CrudeSep<sup>®</sup> vessels, CETCO can utilize the appropriate technology to remove oil, solids, and toxic materials from your operation's wastewater streams.



# PIONEERING PROCESS

CETCO technology improves water quality throughout each treatment stage. Our three stage process assures that discharge specifications are met and often exceeded. Our engineered solutions make CETCO the leader in online applications.



## STAGE 1

First, fluid enters the Nautilus™ Weir Box comprised of four individual compartments.

Chemical injection, induced gas flotation, and oil separation capabilities are available in each compartment. The Nautilus™ Weir Box provides operational flexibility to assist in breaking emulsions and segregating solids.

## STAGE 2

Next, solids filters remove entrained particulates and coalesce residual oil. Various solids filter skids are available depending on the flow rate desired.

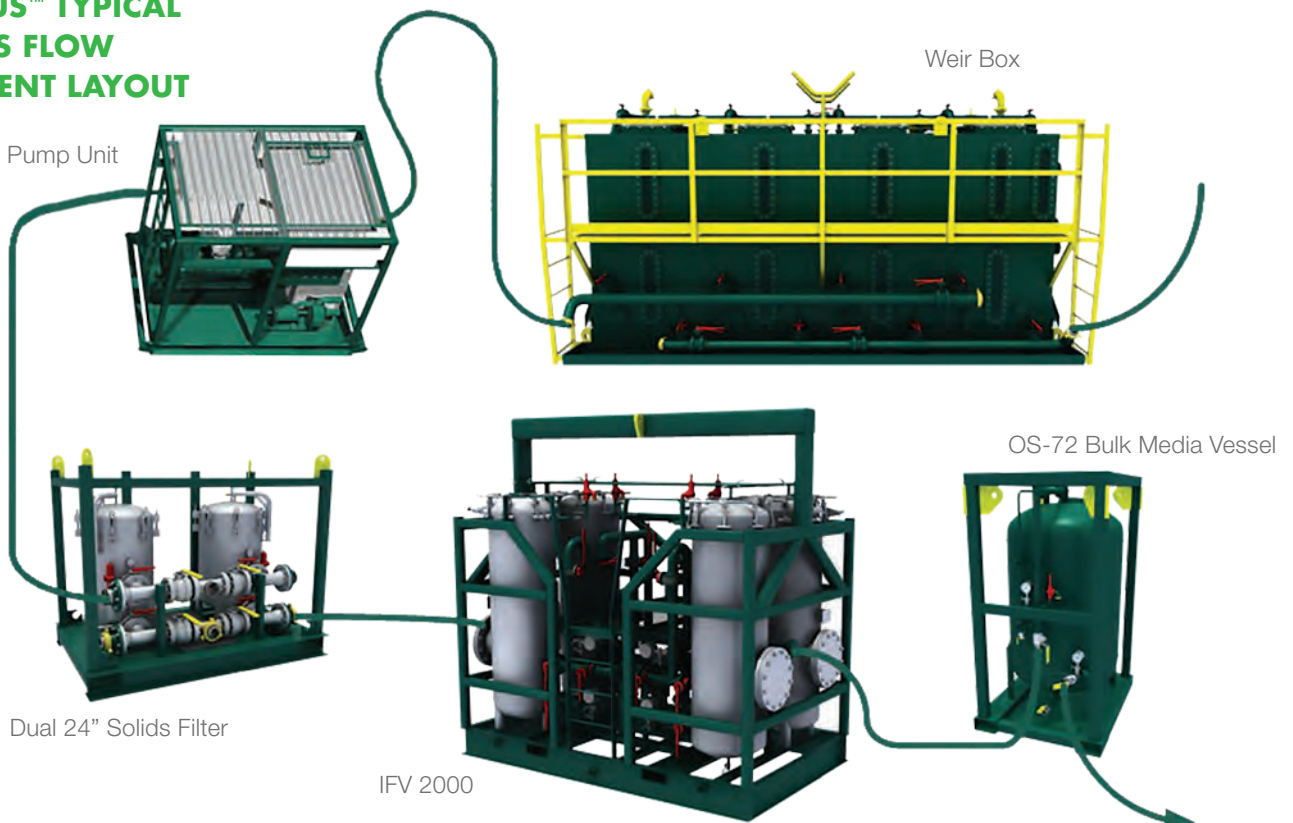
Due to the redundancy in the skid design, filters can be replaced while remaining on-line. Various filter constructions and micron sizes are available for specific applications.

## STAGE 3

The final step of the process is flowing through a specially designed vessel containing CETCO's proprietary media.

Through either coalescing or adsorption processing, our media removes the remaining hydrocarbons from the fluid stream. A final polishing vessel containing GAC may be utilized, if needed, before routing the clean fluid overboard.

## NAUTILUS™ TYPICAL PROCESS FLOW EQUIPMENT LAYOUT



# NAUTILUS™ TECHNOLOGY SUITE

CETCO proudly presents the Nautilus™ Technology Suite – a scalable design with enhancement options to accommodate a wide range of water treatment needs and situations. CETCO's Nautilus™ technology is used to separate fluids in the product stream, return saleable hydrocarbons, and ensure overboard regulation compliance.

The Nautilus™ is at the heart of CETCO's water treatment technology. Featuring a chambered system to facilitate oil/water separation, Nautilus™ outperforms other treatment packages in safety, volume and diversity of use. The Nautilus™ technology is best performing method for oil/water separation available today.

CETCO understands that each operation is unique and each Nautilus™ package is engineered to meet your specific job requirements. CETCO designs each rental package to facilitate fluid treatment and minimize footprint.

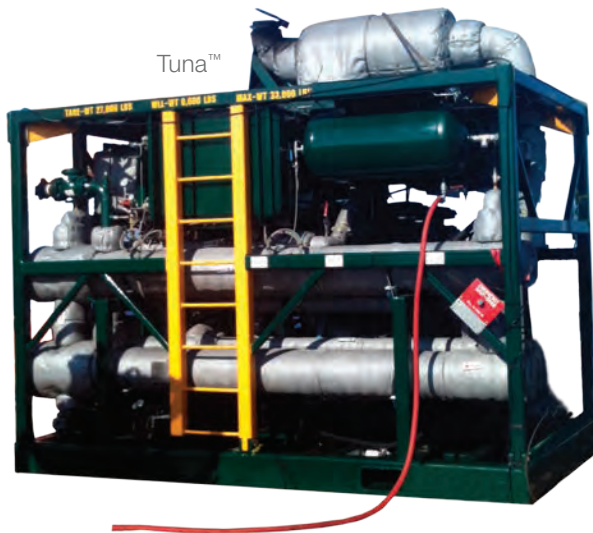
CETCO is continually innovating and improving our Nautilus™ process technologies to further assist our customers.

The following products are enhancements to the Nautilus™ package:

**Centrifuges** – CETCO centrifuges will mechanically separate oil/water faster than a conventional separator, while utilizing a smaller footprint. The compact unit promotes oil/water separation during flowbacks, which allows CETCO to return better quality oil for platform sales.



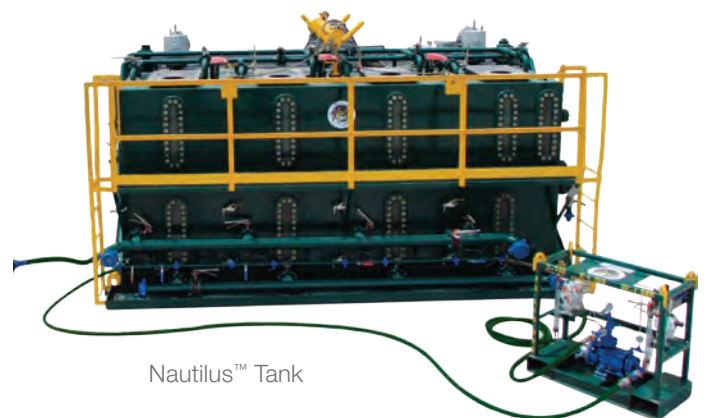
Centrifuges



Tuna™

**The Tuna™** – CETCO uses its flameless heat exchanger unit to provide a safer solution to fluid temperature control offshore. Unlike other available flameless units which place the recovered well fluid lines inside the open heat source chamber, CETCO's design runs well fluid lines inside a water and glycol bath. This acts as a neutral barrier between recovered well fluids and the unit's heat source to optimize the heating capabilities with an improved design for safety.

**Nautilus™ Enhanced Separation Technology** – The Nautilus™ EST features a Nautilus™ Weir Box enhanced by adding DGF (Dissolved Gas Flotation) in its chambered system to expedite the oil/water separation process. The Nautilus™ EST package includes a DGF pump, an enhanced mixing system, optional emulsion breaker skid and an automated level control system. The enhanced system specializes in hard to treat production fluids where normal methods of separation fail.



Nautilus™ Tank



# HI-FLOW® PROCESS

## ADVANCED COALESCING TECHNOLOGY

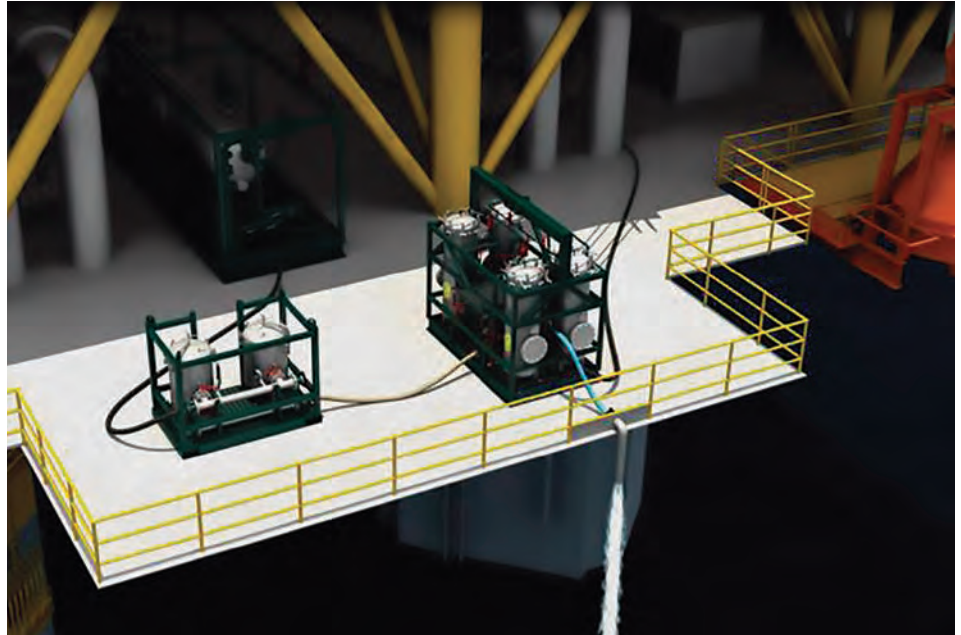
CETCO's Hi-Flow® is a patented technology developed as a produced water excursion system which can be used to prevent sheens, platform shutdowns, or as a standalone produced water treatment system.

The Hi-Flow® Process utilizes advanced coalescing technology to treat high rates of produced water.

The process allows the discharge of treated fluid into the environment in compliance with regulations. Our Hi-Flow® Process is highly flexible to accommodate a multitude of operating scenarios. Hi-Flow® can handle small to large volumes of liquid (275 BWPD to > 40,000 BWPD), is not hindered by large fluctuations in oil and grease, and can be used for long or short duration projects.

Hi-Flow® is also used in well completion flowbacks, workovers, scale squeeze flowbacks, acid flowbacks and high rate pipeline dewatering applications.

Deepwater and subsea well applications are of particular interest for Hi-Flow® Technology because it has been used successfully in removing hydrocarbons in MEG and Methanol, as well as in Produced Water in the presence of LDHI.



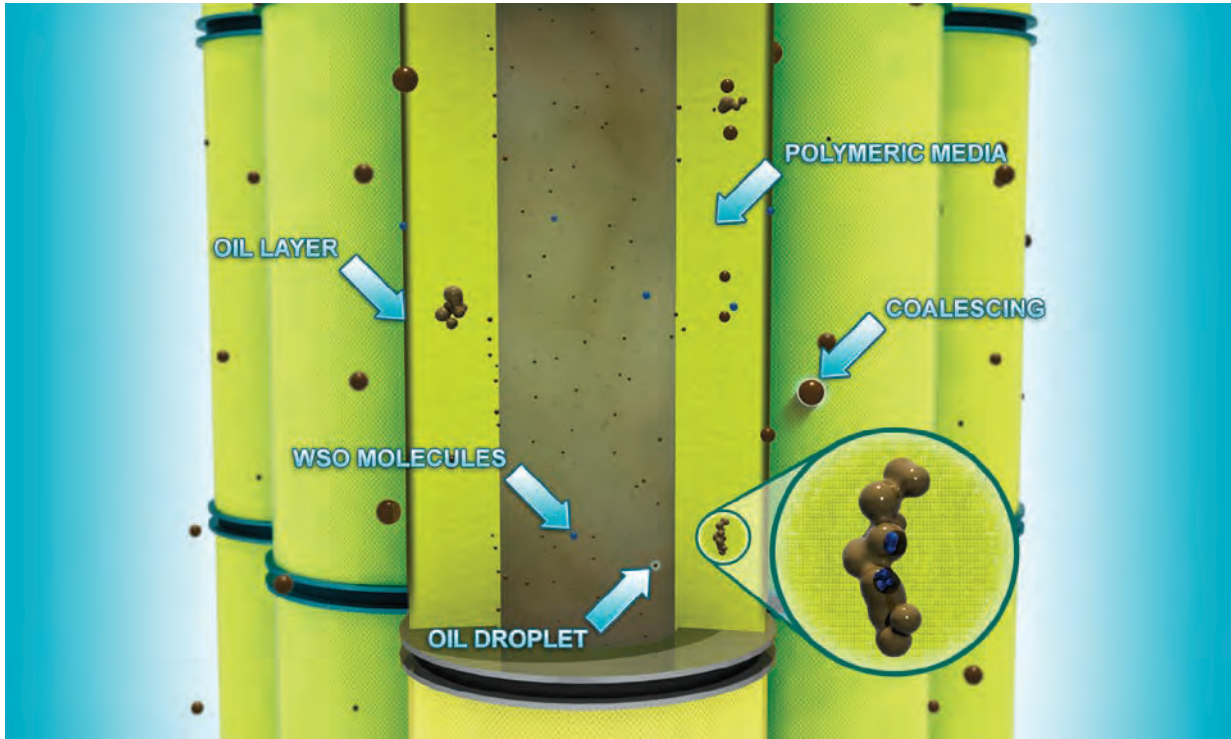
### HI-FLOW® PROCESS BENEFITS AND FEATURES

- Handles Small to Large Volumes of Liquid, From 275 BWPD to > 40,000 BWPD
- Allows Flexibility — Can Be Used on Projects with Short or Long Durations
- Meets Overboard Discharge Requirements without Further Treatment
- Manages Large Inlet Fluctuations without Affecting Performance
- Minimizes Operator Intervention
- Has a Small Deck Footprint
- Regenerates by Backwash
- Lowers Media Replacement Costs
- Reduces the Need for Chemicals
- Provides Downstream Solids Protection
- Increases Turndown Capability
- Increases Produced Water Handling Capacity
- Accommodates for System Upsets
- Removes Water Soluble Organics

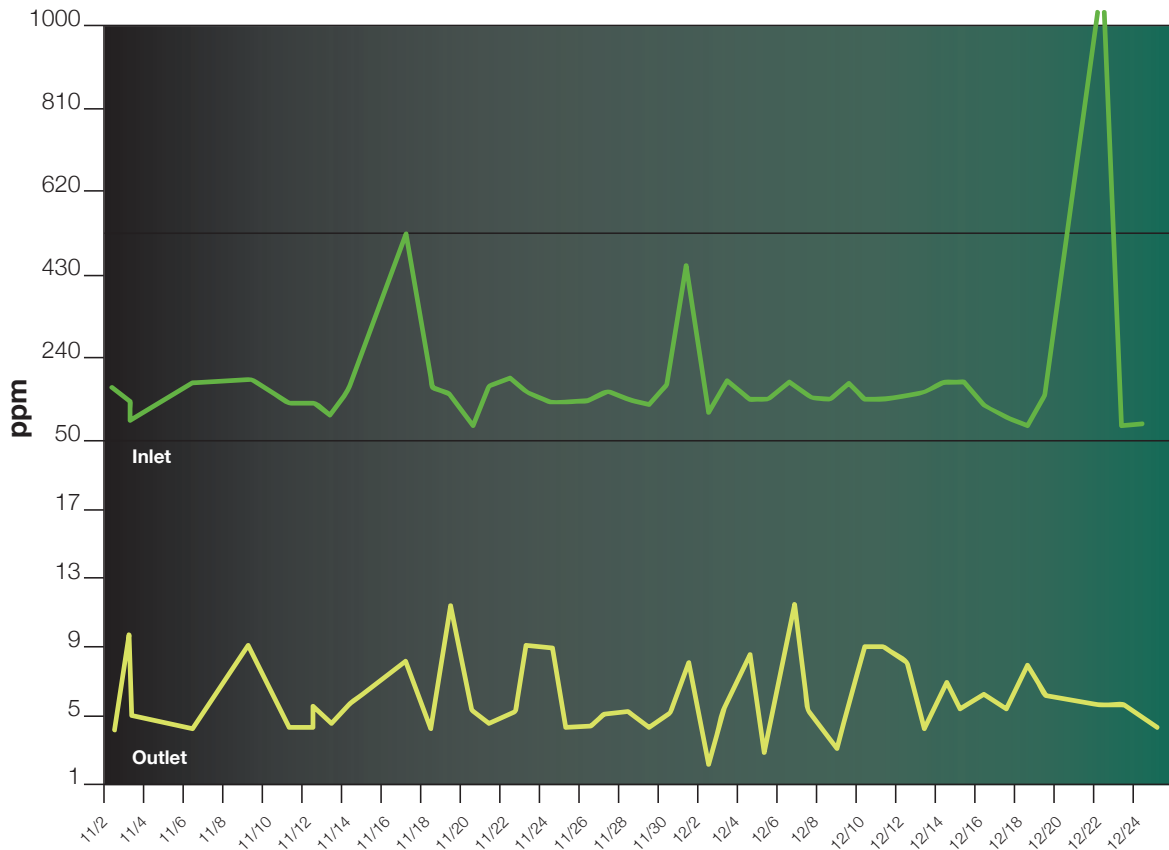




## HI-FLOW® FILTRATION PROCESS



## RESULTS FROM CETCO ENERGY SERVICES HI-FLOW® PROCESS



# CRUDESEP® – COMPACT FLOTATION TECHNOLOGY



CETCO ENERGY SERVICES offers two designs for robust Compact Flotation Units (CFUs) with its CrudeSep® IGF (Induced Gas Flotation) and newly commissioned CrudeSep® DGF (Dissolved Gas Flotation). These CFUs complement CETCO's existing product range to increase the efficiency and effectiveness of our water treatment packages. The CrudeSep® IGF and DGF units may be installed as stand-alone vessels or in series. While their modes of operation are quite different, the units are synergistic in series. The CrudeSep® IGF is cyclic and is excellent in solids removal, while the CrudeSep® DGF is particularly effective with chemical treatment. Both CrudeSep® designs contain no moving parts within the vessels to minimize maintenance and downtime.

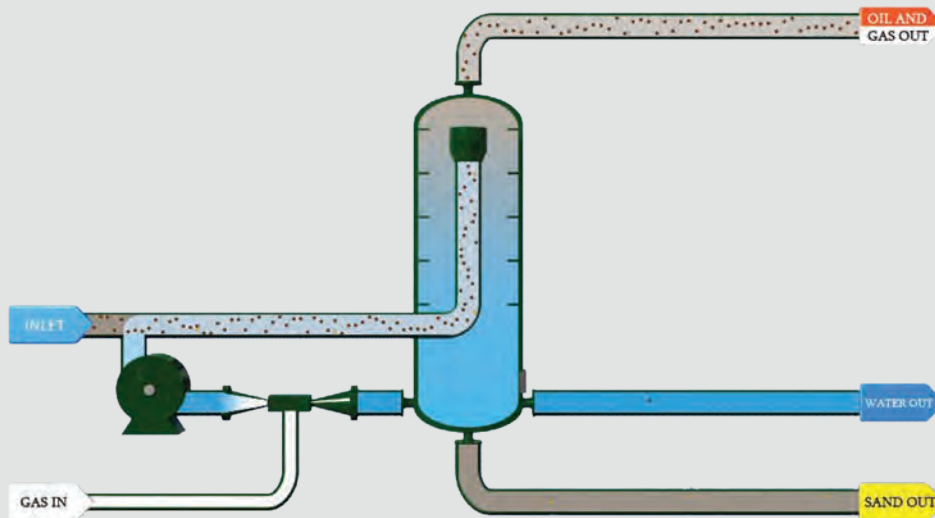
## CRUDESEP® IGF

CrudeSep® IGF is a compact flotation unit that enhances the oil separation process through induced gas flotation and cyclic flow. The unit's cyclic flow ensures excellent mixing and flotation to the surface and efficient solids removal performance (>90% in some cases).

## CRUDESEP® DGF

The CrudeSep® DGF is a multi-staged vessel that enhances oil/water separation by injecting dissolved gas bubbles into the vessel. Achieving optimum bubble size allows more oil droplet contacts and increased efficiency of smaller sized oil droplet flotation. Using applied fluid dynamics, this unit effectively separates oil/water within the multi-stage design of the vessel without any moving components.

DGF





## CRUDESORB®

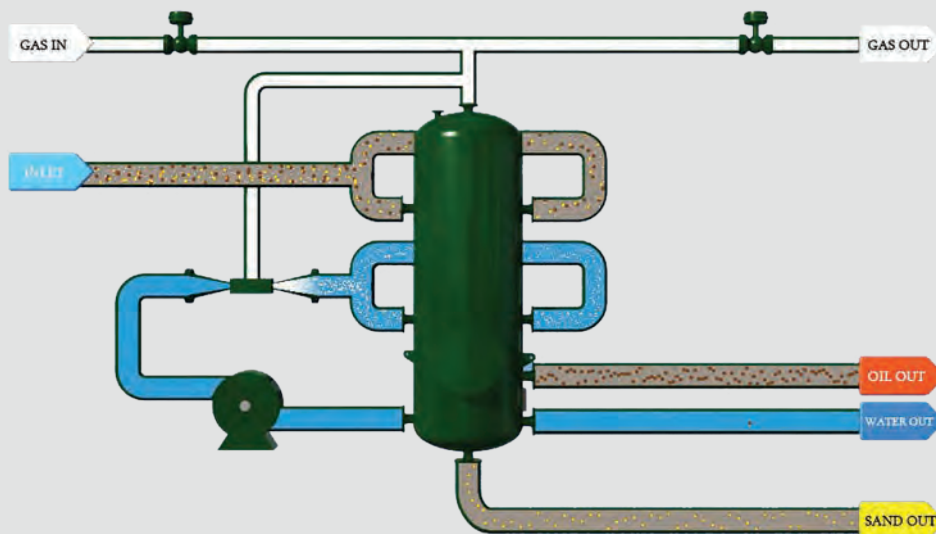
CETCO's CrudeSorb® technology is a proprietary media based on resin, polymer and clay chemistry. It is extremely efficient at removing free oil, grease, and soluble organics from water systems.

CrudeSorb® adsorption media is housed in such a way that allows for quick and easy media change outs – which is essential on temporary flowback applications or at remote locations. The vessels can be arranged for series or parallel flow configuration to enable continuous flow.

## CRUDESORB® MR MERCURY ARSENIC REMOVAL MEDIA

CrudeSorb® MR is a specialized media that can be packed into traditional CrudeSorb® canisters for the removal of mercury and arsenic. This media is based on organoclay technology. It has been heavily modified to enhance mercury and arsenic adsorption through both physical removal and chemical bonding.

CrudeSorb® MR is effective on all sources of mercury including the organic type of mercury, mercury element (zero valent) and mercury ions (both I and II valent). CrudeSorb® MR can be as effective as the traditional CrudeSorb® media to remove oil, grease and other organic contaminant molecules when needed.



IGF

# PRODUCED WATER TECHNOLOGY

## PROCESS EQUIPMENT FOR PRODUCED WATER & WATER TREATMENT SYSTEM DESIGN

### PERMANENT PRODUCED WATER EQUIPMENT

CETCO's Produced Water Treatment Systems exemplify performance, value and quality. Our systems rid our customers of the frustrations associated with non – performance, size, and cost that comes with most equipment. They are capable of handling everything necessary for separating/treating gas, oil or water from a production stream.

With more than 20 years of experience, CETCO ENERGY SERVICES has been able to focus on the design, technology, engineering and manufacturing to provide their customers treatment systems with unparalleled removal efficiency, maintenance – free design, reliability and durability.

### BROWNFIELD IMPROVEMENT WITH CETCO'S PERMEANT PRODUCED WATER EQUIPMENT

CETCO provides custom built equipment for long-term performance enhancement in mature fields.

Platforms today are being utilized far beyond their 25-30 year design life and the high value of oil and gas is driving this demand. During this extended life, water cut increases beyond the design of the process facilities. Fields that are being exploited by subsea production models are also being tied back to existing production facilities to reduce overall facility costs. This requires a revamping and expansion of the existing process facilities.

This "Brownfield" re-development of the water processing facilities allows the existing facilities to handle increased amounts of produced water. CETCO is uniquely positioned to provide the production operator with temporary facilities to address these issues. During this period, CETCO can build custom permanent equipment for that specific platform to fit within the existing facilities. The high – efficiency compact flotation unit (CFU) CrudeSep® and our Hi-Flow® Coalescing system are ideal for these installations.









# TROUBLESHOOTING & OPTIMIZATION SOLUTIONS

CETCO ENERGY SERVICES understand the rigorous demands that our customers face every day. Environmental regulations are becoming ever more stringent, while at the same time profitability is under pressure due to tight market conditions. Our goal at CETCO is to provide world-class service to the upstream O&G Industry by helping our customers mitigate environmental risk through best-in-class technology and process engineering.

In addition, to providing water treatment services and capital equipment, CETCO also offers specialized engineering services to assist in troubleshooting and optimization of water separation processes. We have developed the ORCA™ (Objective Root Cause Analysis) program to deliver solutions to complex problems for water treatment applications. In a tough market environment with downward pricing pressures, it is paramount for the operators to maintain efficient operations. Poor water treatment operations can result in everything from shutdown to governmental fines for off-spec overboard discharge. With our ORCA™ troubleshooting and optimization programs, CETCO strives to deliver a cost-effective solution to your produced water issues.



## APPLICATIONS

- Brownfield PW Optimization
- Greenfield Water Treatment System Design Review
- Brownfield PW rates increase and expansion projects
- Assess Chemical Treatment System
- Pre-FEED and FEED
- FPSO Slop Water
- Well Intervention and Flowback Treatment





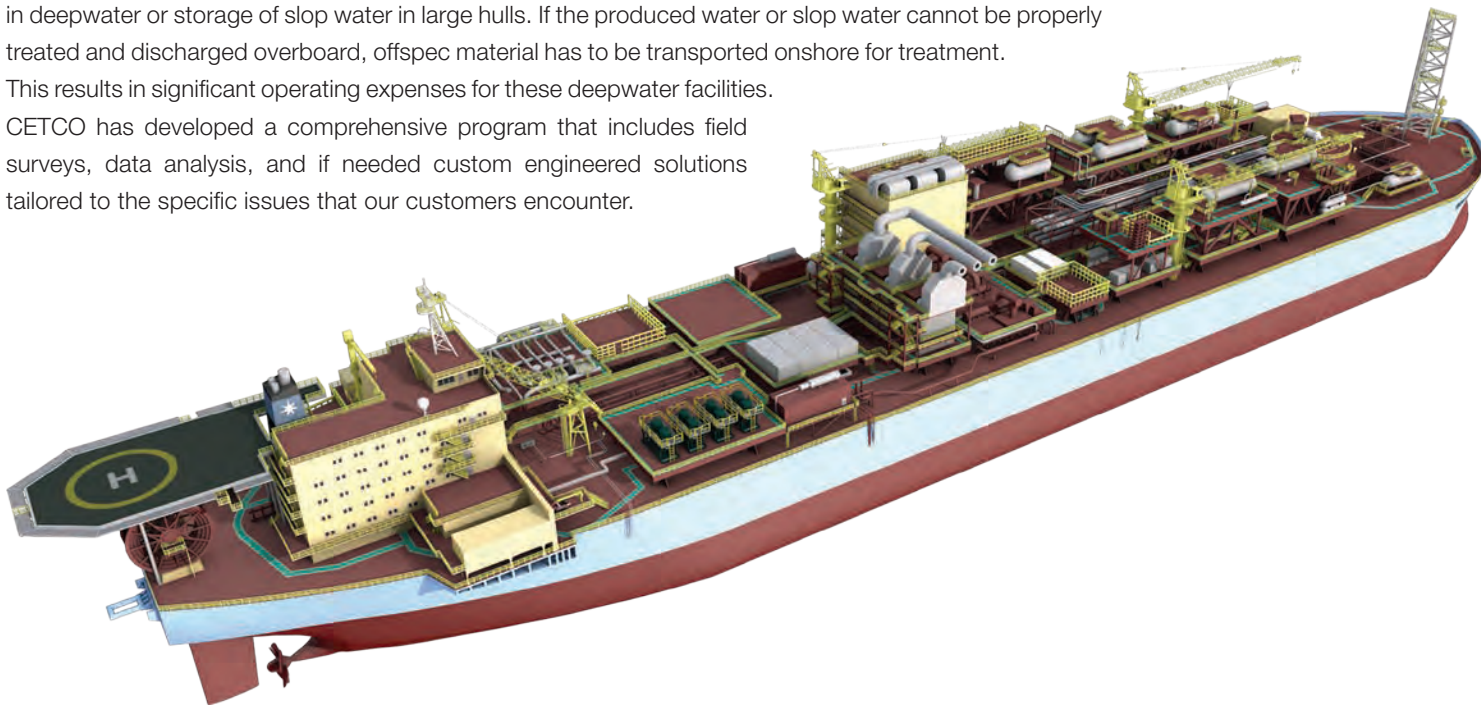
# FPSO WATER SOLUTIONS

CETCO ENERGY SERVICES, as an industry leader in water treatment solutions to the offshore oil and gas market. With many offshore facilities facing increased water production from aging fields, we understand the difficult challenges that our customers face every day in processing and treating produced water to maintain oil production without interruption. Environmental regulations for overboard discharge or for reinjection are becoming more stringent every year and this creates complex systems that are utilized for water treatment.

Floating, Production, Storage, and Offloading (FPSO) facilities have unique challenges for water treatment due to remote locations in deepwater or storage of slop water in large hulls. If the produced water or slop water cannot be properly treated and discharged overboard, offspec material has to be transported onshore for treatment.

This results in significant operating expenses for these deepwater facilities.

CETCO has developed a comprehensive program that includes field surveys, data analysis, and if needed custom engineered solutions tailored to the specific issues that our customers encounter.



## FPSO APPLICATIONS INCLUDE THE FOLLOWING:

- Greenfield permanent produced water equipment for primary, secondary and tertiary treatments
- Brownfield Expansion Projects and Upgrade Projects
- Tertiary Polishing Excursion Units
- Permanent Flowback Equipment for Well Intervention
- Slop Water
- Early Production Facilities
- Rental equipment available for temporary solutions while fabricating a permanent solution
- ORCA™ Engineering and Optimization Studies

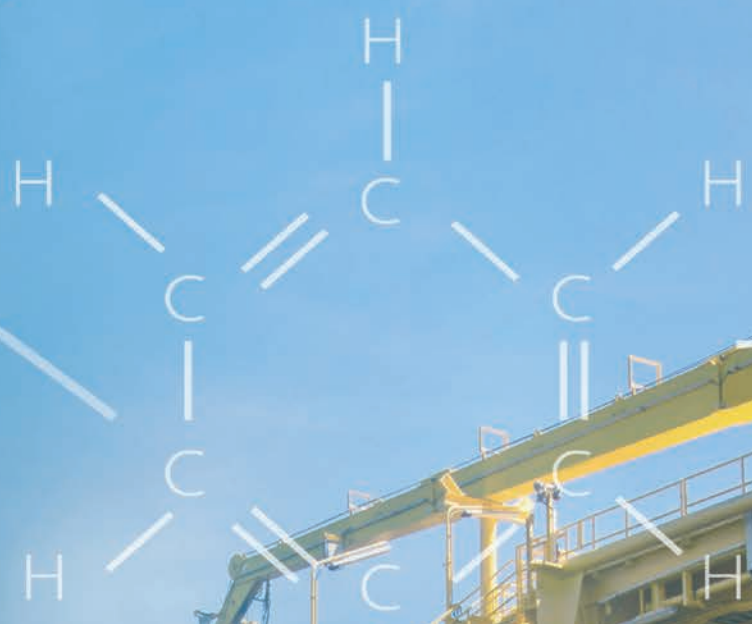
### BROWNFIELD



### GREENFIELD







MeO<sub>2</sub>C

RO<sub>2</sub>C







# DISCOVER ORCA™

## OBJECTIVE ROOT CAUSE ANALYSIS

CETCO's ORCA™ Services help Oil & Gas Operators optimize their production systems by identifying the root cause of process challenges and by providing clear and concise insights into production problems. ORCA™ Services review the Client's issues, perform studies, and make recommendations on the best technologies available.

The ORCA™ team leverages highly-specialized tools and over 50 years of produced water experience to provide clear solutions. On-site pilot tests and analytical studies ensure customers receive the data they need right away, and our diverse team of specialists provides a clear view into the key factors affecting production. Our Goal is to perform in-field pilot testing and analysis, and to strive for rapid turnaround of results to the Client upon consolidation field and laboratory data.

### APPLICATIONS

- On-site measurement of oil droplet and oily solids size distribution
- On-site assessment of fluids, equipment, process, chemical treating and operations
- Troubleshooting and problem solving
- On-site equipment pilot testing
- Water management planning
- Concept development
- Front-end engineering
- Risk mitigation
- Environmental & regulatory advice and management

### FEATURES & BENEFITS

- On-site treatability kits enable rapid evaluation at low cost
- Early identification of emerging technology opportunities
- Internal training & expertise development
- Ability to provide holistic and whole-system solutions
- Concise, focused studies deliver value-added results and yield rapid return on investment

For more information about ORCA™ Services visit our website [cetcoenergyservices.com](http://cetcoenergyservices.com)





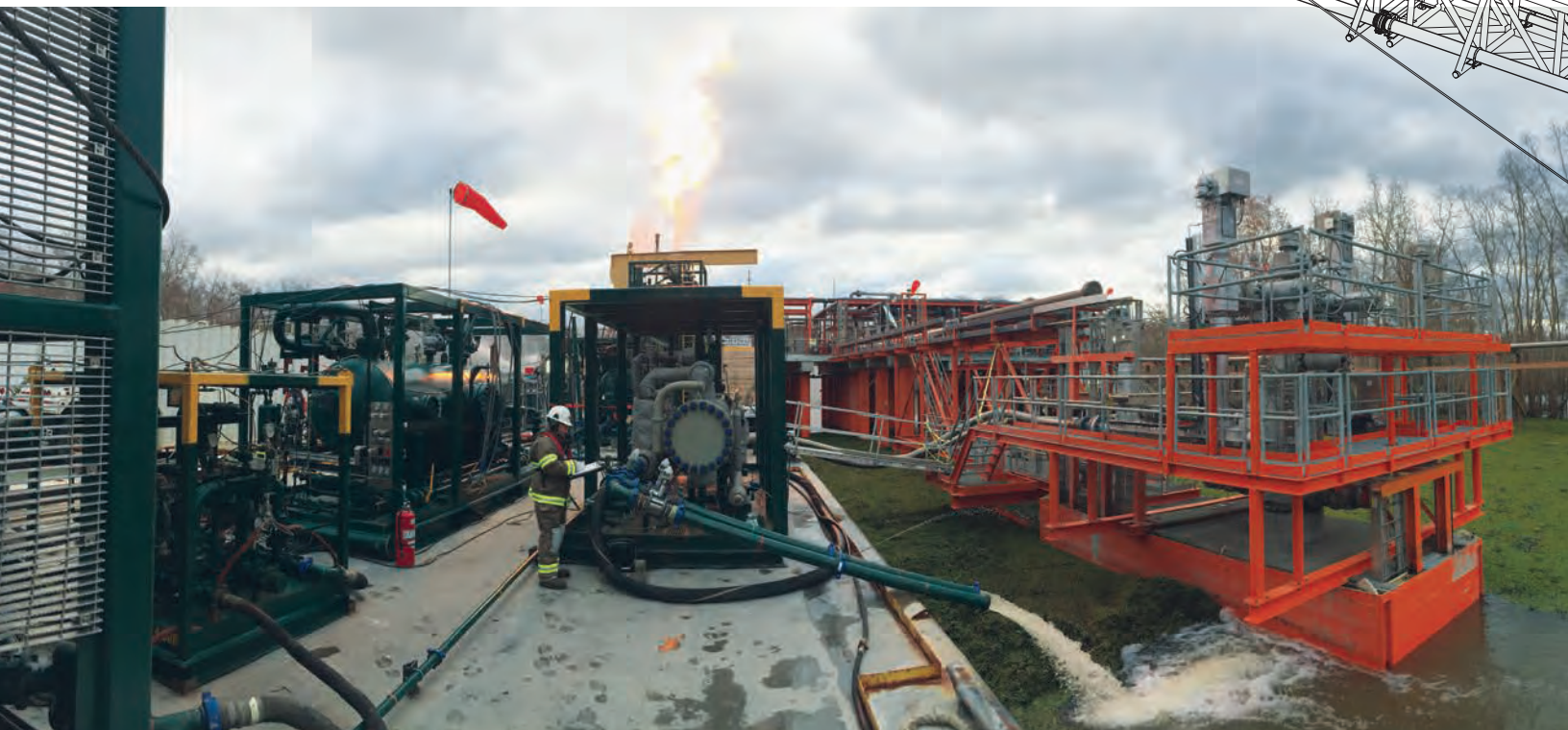
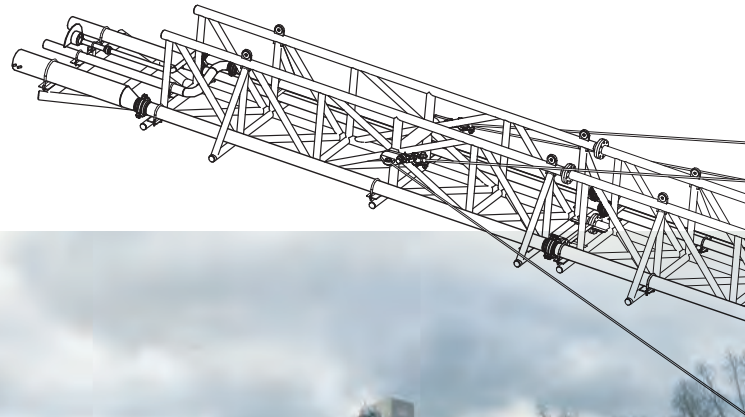
# WELL TESTING

## APPLICATIONS

- Well Intervention/Cleanup and Flowbacks
- Temporary Production Equipment
- Fluid Transfer to Filtration System, Barge or Specialized Vessel
- HP/HT Capabilities
- Blowouts/Well Control
- On-site Data Reports
- Muddog DataLink™ Website and Mobile App for Data Acquisition
- Project Engineering/Management

## WELL TESTING

CETCO ENERGY SERVICES has been a leader in providing safe, dependable WELL TESTING and blowout flow control services to the oil and gas industry since 1968. We can design a well test package to meet your requirements, even in well conditions with high pressure, high temperature, high flow rates, and solids. Commitment to safety and technological innovation has led to our high level of customer satisfaction. Our dedication is evident in our highly-trained personnel.





Well Testing Services can be utilized over the entire life of the well and not limited to the following applications:

## DRILLING

- DST (Drill Stem Test)
- Flare Kicks (Especially in Sour Service Applications)

## COMPLETION

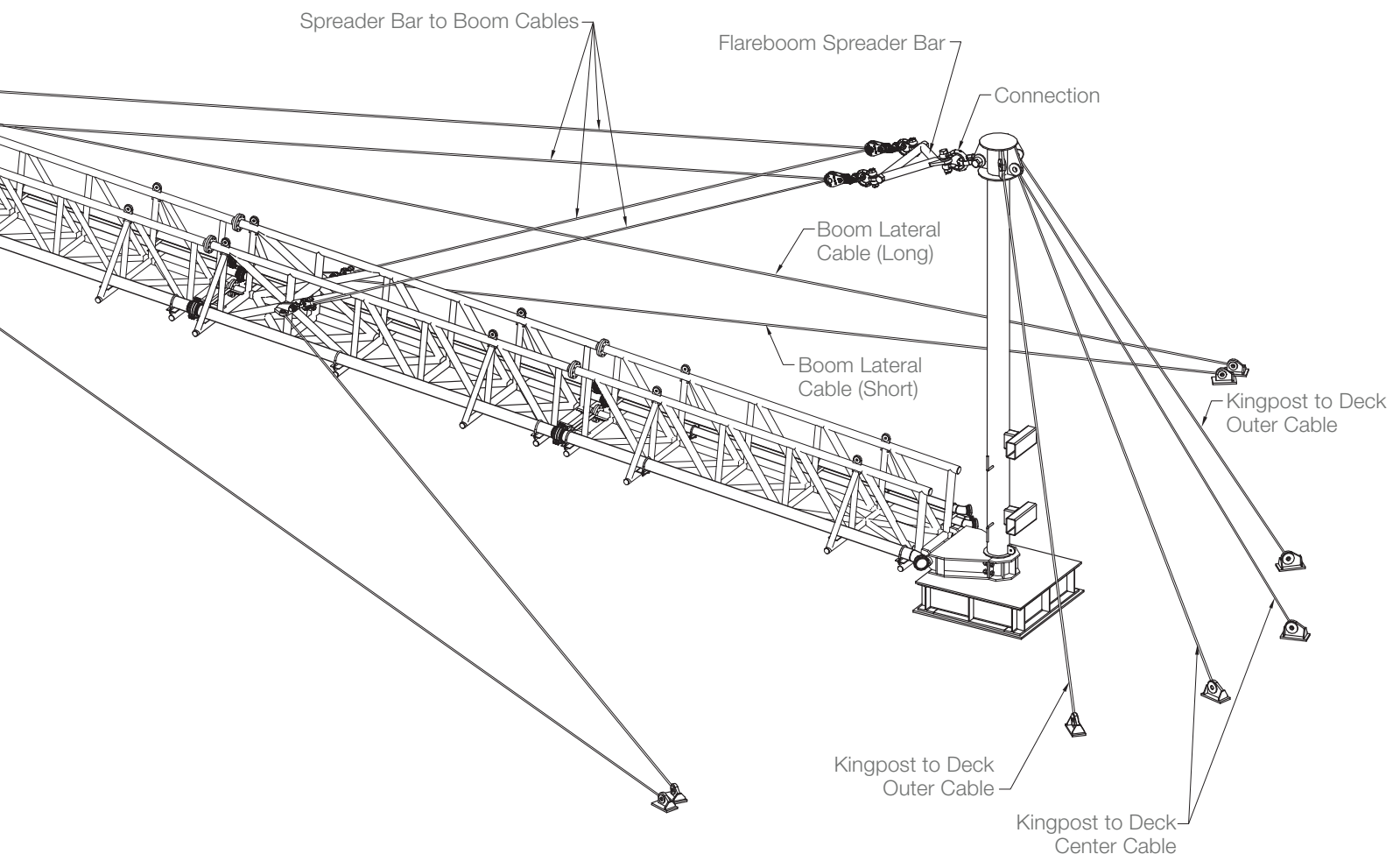
- Well Testing (Determine Permeability/Boundaries, Life of Well)
- Unload/Clean-up/"Burp Test" (Skin Factor, Test Completion)
- Acid Flowback (Protect Client Production Equipment)

## PRODUCTION

- Workover/Intervention/Chemical Injection
- Facility Startup and Facility Shutdown
- Early Production System (Before Client Equipment is in Place)

## PIPELINE DECOMMISSION/P&A:

- Bleed Operations
- Integrated Pumping/Flushing
- Fluid Recovery/Recirculation



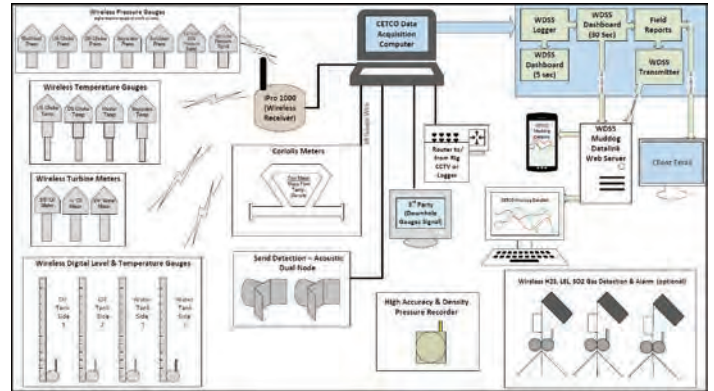
## DATA ACQUISITION

CETCO offers real-time data acquisition to keep you well-connected and informed throughout your project. Through our Muddog DataLink™ website and mobile app, our clients can receive data directly from the field. This allows you to view and retrieve the data in real time from your phone or computer.

## DEEPWATER EXPERIENCE

CETCO has a proven track record in deepwater. We understand each deepwater project requires only the best equipment, the most knowledgeable personnel, and detailed planning to maximize your investment. That is why CETCO assigns an experienced Well Test Engineer to manage each deepwater well testing project from cradle to grave, including mobilizing offshore for project execution. As our clients explore deeper formations in remote locations, we are meeting the needs for advanced planning, engineering, and customized well test packages.

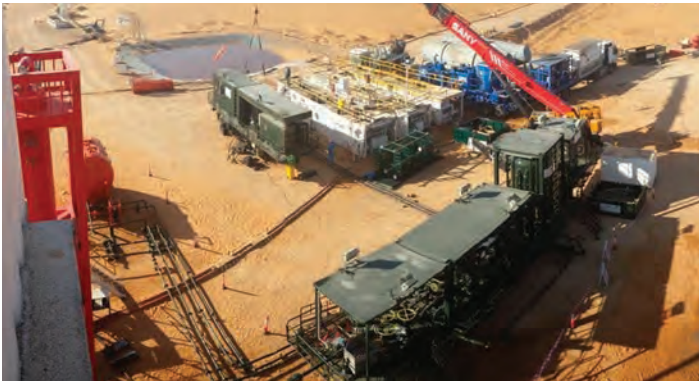
The next time you need an experienced well testing or a full service provider, be sure to count on CETCO ENERGY SERVICES.



## GLOBAL WELL TEST PACKAGES

**LOCATIONS:** Southeast Asia, West Africa, Middle East, US – GOM

CETCO ENERGY SERVICES has a proven track record in well testing projects across the globe. We understand each project requires only the best equipment, the most knowledgeable personnel, and detailed planning to maximize your investment.





# WORKOVER COMPLETION FLOWBACKS & INTERVENTION

CETCO Intervention Services equipment/personnel have the capacity to cover virtually any project involving fluid handling. CETCO's experienced Project Engineers can design a unique solution to meet the customers need.

## APPLICATIONS

- Fluid Handling – Flushing/Circulation/Capture/ Separation/Filtration
- Flowline Commissioning, Decommissioning and Abandonment Pumping Services
- Solids Remediation – Capture/Separation/Filtration
- Paraffin Remediation – Hot Media Circulation
- Fluid Management for Coil Tubing Operations
- Fluid Transfer to Filtration System, Barge or Specialized Vessel
- Workover Fluids
- Well Stimulations
- Chemical Injection – Class 1 Div 1 Criterion
- Chemical Flushing – Umbilical's/Control Lines/Hydraulic Systems/Control Panels
- Pressure Testing
- Project Engineering/Management



# PIPELINE FLUID TREATMENT

## APPLICATIONS

- Stand-Alone Separation and Filtration for Gas and Liquid
- Water Treatment Services for Discharge
- Terminals and Tank Farm Cleanup
- Pipeline Commissioning, Decommissioning and Abandonment
- Fluid Handling – Flushing/Circulation/Capture/Filtration
- Pipeline Equipment Rentals
- Project Management

## PIPELINE

CETCO ENERGY SERVICES provides a variety of solutions to the pipeline industry. Using specialized mobile equipment, and highly trained personnel, we provide unique and cost-effective solutions to our clients. CETCO provides services covering all stages of fluid handling; from pumping, circulation, flooding, and testing to fluid capture with pressurized retention. We also offer multiple stage separation of flowing fluids or products, which can be filtered for on-site discharge, flared, and/or captured for offsite fluid disposal.







## **PIPELINE FLUID TREATMENT SERVICES**

### **TEMPORARY PIPING**

Pipe may seem inconsequential, but it is always necessary. CETCO provides temporary piping to interface temporary equipment to permanent equipment for maintenance operations. CETCO can provide pipe ranging from 2" to 10" including hammer union and flanged iron accommodating a wide range of desired flow rates.

### **SEPARATION OF PRODUCT STREAM**

In cases where maintenance pigging on pipelines is being performed, high – pressure mobile separators are often needed to ensure debris does not pass into the pipeline system or station. CETCO has a large fleet including HP separators and FilterSeps ready for these projects.

### **PIPELINE BLOW-DOWN SERVICES**

Pipelines being evacuated for repairs or decommissioned may require the operator to blow-down the pipeline of all product. For such operations, CETCO uses its separator and flaring system to safely remove hydrocarbons from the pipeline. We have a range of mobile flares available to meet your repair and decommissioning-operation needs.

### **PUMPING SERVICES**

CETCO offers pumps for filling, testing and dewatering operations.

### **MOBILE FILTRATION FOR DRY PIGGING**

During dry pigging operations, mobile filtration is used to remove dust and other solid debris from pipelines to ensure the debris does not continue into other parts of the pipeline system.

### **WATER FILTRATION SERVICES**

CETCO can filter large volumes of contaminated water from pigging, hydrotest, or commissioning operations for local discharge under a permit.







## PIPELINE EQUIPMENT

CETCO ENERGY SERVICES Pipeline has a large inventory of well – maintained and well-designed vessels and support equipment. CETCO maintains a large inventory of pipeline equipment including:

- High Pressure Separators
- Low Pressure Separators
- Single Service FilterSep
- Dual Service FilterSep
- Liquid Service FilterSep
- Manifolds
- Flare Stacks & Flare Booms
- Piping and Valves
- Pumps
- Atmospheric Tanks
- Pressurized Tanks
- Flanged Pipe



CETCO has a large and diverse fleet of pipeline equipment available for rent, with or without personnel. Our fleet of specialized and adaptable equipment can perform the most complex and challenging jobs.



# ENGINEERING & OPERATIONS

With every job, CETCO ENERGY SERVICES relies on the collaborative efforts of its operations, project management, R&D group, HSE, and support teams to complete your job successfully and safely. We extend our innovative problem solving approach to bring you continuously better technology and services. From initial planning through project completion, CETCO ENERGY SERVICES is the complete solutions provider.

## OPERATIONS

CETCO understands that proper safety measures, informed decision making, and experience are critical to performance. Because of this, all service personnel have been certified under DOT's Operator Qualification program and are highly-trained, field-experienced professionals ready to work for your success.

## ENGINEERING

CETCO's project management and engineering team design and optimize each project to meet the project objectives effectively and efficiently. Our Project Management team can expertly design a unique and cohesive system to safely and effectively meet your objectives and comply with government regulations. Our experienced engineering team can provide P&IDs, process flow diagrams, SAFE charts, procedures, SEMS compliance, and performance calculations. Our team includes certified project managers (PMP) and engineers (P.E.) to help design the best system for your application.



# QEHS

CETCO ENERGY SERVICES considers its highest priorities to be incident prevention, employee safety, and environmental protection. In addition, CETCO is committed to being an industry leader in all of its offerings by focusing on quality of service and customer satisfaction. A workplace strong in safety principles will demonstrate its strength through quality and efficiency. Accidents, injuries and inefficiency are all forms of waste, and their elimination will have a direct effect on operational performance and employee well-being. Our safety values in conjunction with our Operational Excellence plan drive us toward world class performance in both Quality & EHS. At CETCO ENERGY SERVICES, our goal is nothing short of zero injuries.

## QEHS TRAINING

CETCO ENERGY SERVICES employees undergo extensive safety, regulatory, and Operational Excellence training programs in both classroom and hands-on settings. Upon completion of our vigorous education programs, our employees are capable to perform their particular disciplines. Through reinvestment in our most important asset, our people; we ensure that our personnel are equipped with the knowledge, skills, and abilities to execute your job successfully.

## EQUIPMENT AND MAINTENANCE

CETCO ENERGY SERVICES is proud to offer a vast inventory of vessels and support equipment for both onshore and offshore applications. We have an extensive assortment of coded vessels, specifically designed to handle hazardous flow streams.

Only highly qualified personnel maintain and operate our equipment. To ensure reliability and customer satisfaction, we document the working history on all our equipment. Upon returning from each project, a series of QAQC procedures are performed to ensure all equipment meets the integrity of our high performance standards.





# OPERATIONAL EXCELLENCE

In some companies, doing the same things over and over again because “that’s the way that they’ve always been done” or “don’t fix it if it’s not broken,” are accepted ways of running the business and approaching one’s work.

At CETCO ENERGY SERVICES, we believe in something infinitely more elegant and uplifting – Operational Excellence. For us, it’s both an operating philosophy and a practice for our employees located at our facilities worldwide. Our ultimate objective is to deliver value to customers through safe, highly efficient and reliable production and service delivery processes. This objective is achieved through the relentless pursuit of continuous improvement and the elimination of waste, which we believe are prerequisites to being a leader in the global marketplace.

In the end, we believe that Operational Excellence can contribute to superior business results while at the same time supporting a work environment marked by high levels of personal achievement, satisfaction and engagement.

At CETCO ENERGY SERVICES, we are committed to attaining the very highest levels of Operational Excellence through a single-minded devotion to the continuous improvement of safe, highly efficient, and reliable service delivery processes.

This quest for even higher levels of performance is underway through the implementation of sustainable improvement processes, such as 5S, High Performance Work Systems, Kaizen, Standardized Work, and Problem Solving. These are the cornerstones of execution for our operations worldwide.



**IN OUR BUSINESS,  
PROBLEMS ARE SOLVED  
BY PEOPLE, NOT MACHINES.**

## VOICE OF THE CUSTOMER

The “voice of the customer” drives our key strategic initiatives and prevails throughout our service and product value chain. Our Operational Excellence effort is fundamentally designed to continuously improve our ability to both meet and anticipate customer needs in a highly responsive, cost effective manner.

The “voice of the customer” refers to the mindset, process, and the ability to capture customer requirements and use that information

to provide the customer with services and products that meet their stated as well as unstated needs.

Our approach to infusing the “voice of the customer” throughout the Company includes the use of ongoing loyalty and satisfaction surveys, close customer contact, and linkages between the customer and internal development resources.



# 14 WORLDWIDE LOCATIONS IN 10 COUNTRIES

*\*Headquarters Houston, TX*

## NORTH AMERICA

**CETCO ENERGY SERVICES**  
*Headquarters – Sales & Marketing*  
 16350 Park Ten Place, Suite 217  
 Houston, Texas 77084  
 +1.281.578.8911

**CETCO ENERGY SERVICES**  
*Sales*  
 1001 Ochsner Blvd. Suite 425  
 Covington, Louisiana 70433  
 +1.985.871.4700

**CETCO ENERGY SERVICES**  
*Operations, Accounting HR & Recruiting*  
 3601 Paul Segura Parkway  
 New Iberia, Louisiana 70560  
 +1.337.364.3117

**CETCO OILFIELD SERVICES**  
*Sales – Industrial Wastewater*  
 19 Community Avenue, Unit 5  
 Stoney Creek, Ontario L8E 2X9  
 +905.821.1914

**CETCO ENERGY SERVICES DE MEXICO**  
*Sales & Operations*  
 Av. Paseo Tabasco 1203  
 Col. Linda Vista  
 Torre Empresarial 15th floor, Suite 1503  
 Villahermosa, Centro, Tabasco CP 86050  
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## SOUTH AMERICA

**CETCO SERVIÇOS DE PETRÓLEO**  
*Sales & Operations*  
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 Novo Cavaleiros  
 Macaé, RJ 27933-420  
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## EUROPE

**CETCO ENERGY SERVICES**  
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 AB12 4YD Aberdeen  
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## WEST AFRICA

**CETCO OILFIELD SERVICES COMPANY, NIGERIA LTD**  
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 Sales: +234 (0) 8072293661 / 8082627685  
 Operations: +234 (0) 8072293655 / 802293654

## MIDDLE EAST

**RAWABI CETCO**  
*Sales*  
 P.O. Box 79800, Al Khobar 31952  
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 +966 13 865 7055

## ASIA

**CETCO ENERGY SERVICES**  
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 PO Box 80707, Labuan FT 87017  
 Malaysia  
 +60 8 7583995

**CETCO ENERGY SERVICES**  
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 Kemaman, Terengganu 24000  
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