
SIGMA
PETROLEUM SERVICES
ACCELERATE YOUR CASH FLOW

Content

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PETROLEM SERVICES OIL FIELDS

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Sigma Petroleum Services – Growth & Expansion Timeline

2001 — Sigma Petroleum Services Founded
Established to deliver innovative oilfield services and production solutions.

2007 — Regional Expansion Begins
Opened Sigma's first international branch in Oman, extending operations beyond Egypt.

2010 — Entry into Syria
Awarded the company's first project in Syria, expanding its regional footprint.

2013 — First Gas Processing Facility
Delivered Sigma's first gas treatment project with a capacity of 60 MMSCFD for SUCO.

2014 — Well Testing Services Launched
Expanded the service portfolio with integrated well testing solutions.

2015 — Gas Compression Milestone
Executed the first gas compression project in Egypt's Western Desert.

2016 — Nidoco Mega Project
Delivered the landmark Nidoco EPF, processing 540 MMSCFD and supplying gas to a major combined-cycle power plant.

2018 — Pulling Unit Services Introduced
Enhanced well intervention capabilities through the addition of pulling unit operations.

2022 — Sustainability & Emissions Reduction Milestone
Commissioned the first produced water treatment and reinjection facility and delivered Sigma's first zero-gas-flare project.

2023 — Expansion into Morocco
Established operations in Morocco, strengthening Sigma's North African presence.

2024 — First Project in Libya
Successfully secured and executed Sigma's first Libyan project.

2025 — Saudi Arabia Branch Established
Opened a permanent presence in Saudi Arabia to support growth across the GCC.

2026 — Expansion into Algeria & Kenya
Awarded the company's first projects in Algeria and Kenya, marking continued growth across Africa.

25 Years of Growth, Innovation & Regional Expansion, From Local Expertise to Regional Leadership
A Journey of Continuous Growth Building Capability.
Expanding Reach .. Delivering Results.
Milestones That Define Our Success

Company Overview

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Welcome to Sigma Petroleum Services

Engineering Performance .. Delivering Value.

Transforming Operational Challenges into Sustainable Production Success.
Every production asset holds greater potential. Unlocking that potential requires more than engineering expertise—it demands the ability to optimize performance, reduce operational risk, accelerate execution, and transform technical challenges into measurable commercial value.

That is where SIGMA Petroleum Services creates the difference.

SIGMA delivers integrated engineering, oilfield services, strategic trading, and industrial supply solutions that enhance production performance across the entire asset lifecycle.
From engineering and early production systems to production optimization, industrial supply, and lifecycle asset support, every solution is designed with one objective: helping operators maximize production, improve reliability, and create long-term value.

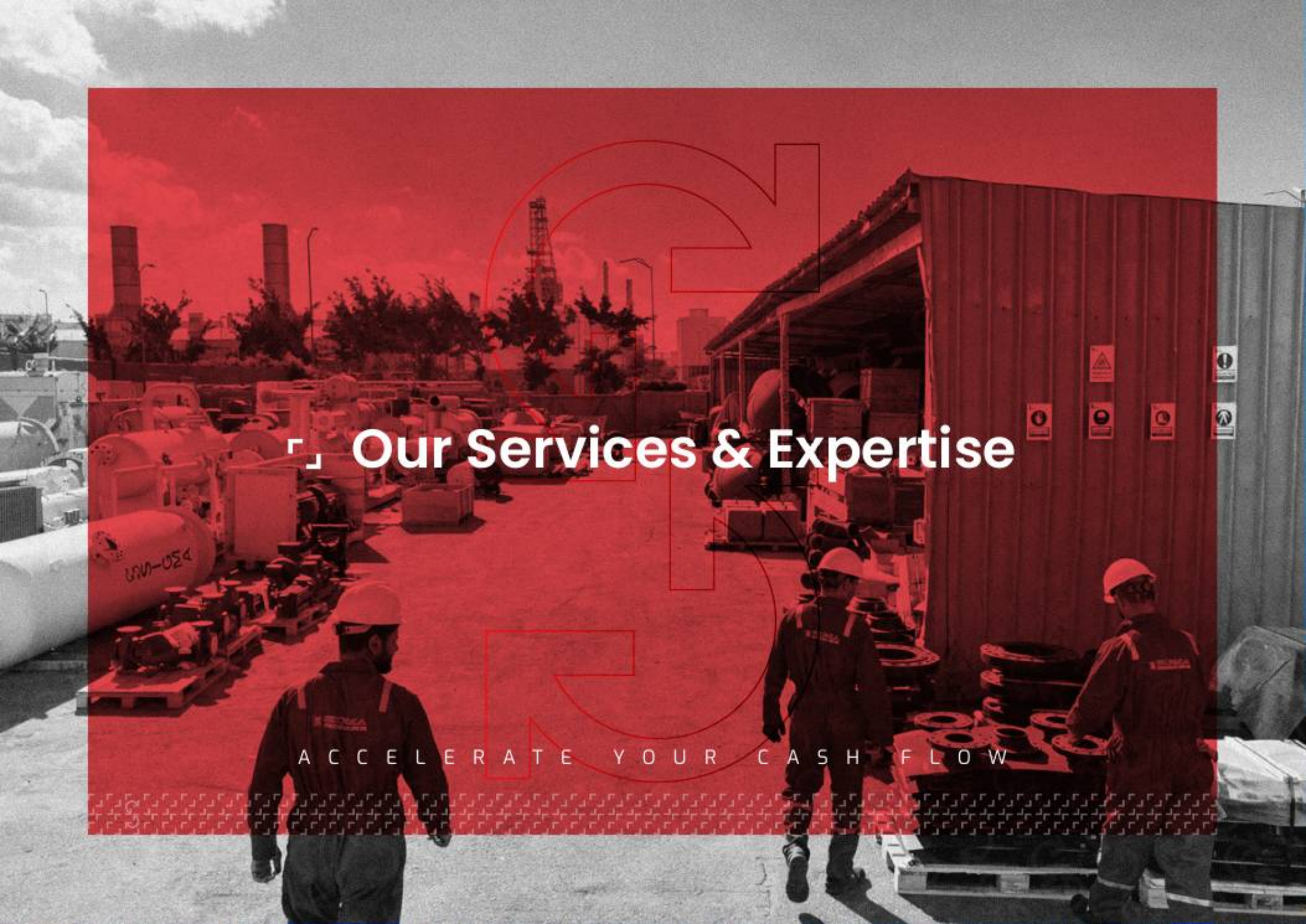
- Backed by more than six decades of industrial heritage through Sigma Group and over two decades of specialized oilfield expertise, SIGMA combines engineering excellence with execution agility, strategic stocking capabilities, certified industrial materials, and trusted global supplier partnerships to support the evolving needs of the oil, gas, energy, and industrial sectors.

- Our integrated capabilities span Early Production Facilities (EPF), Well Testing, Gas Compression, Produced Water Treatment & Reinjection, Gas-to-Power, Flared Gas Recovery, Zero-Pressure Manifold Systems, Well Intervention Services, Metering & Custody Transfer, and complete project execution. Supported by experienced engineering and operational teams, extensive inventories, and a robust regional supply network, we deliver dependable solutions that perform in the industry's most demanding environments.

- With an established presence in Egypt and Oman and a successful project portfolio across Libya, Syria, and Morocco, SIGMA continues to expand throughout North Africa and the Gulf region—building long-term partnerships founded on technical excellence, operational reliability, and consistent project delivery.
  Engineering creates value only when it performs where it matters most—in the field, under pressure, and throughout the life of every asset.
  The difference lies not only in what we deliver... but in how we deliver it.

Why operators choose sigma:

- Fast track execution, ensuring timely project delivery even under demanding schedules.
- Proven operational expertise, supported by a strong record of successfully executed projects.
- A diverse equipment and materials inventory, allowing immediate mobilization for projects of varying scale.
- Integrated operations and maintenance services, providing seamless support aligned with contractual frameworks.
- Rapid equipment scalability, enabling smooth expansion of project scope as operational needs evolve.
- Flexible contracting models, offering both short and long term solutions tailored to client requirements.
- Tailored project solutions, supported by an adaptable and responsive equipment fleet.
- Process designs that evolve, ensuring operational continuity under changing field conditions.
- A firm commitment to quality, safety, and environmental responsibility, embedded across all our activities.



Our Services & Expertise

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Our Services & Expertise

End to End Oilfield Solutions, Engineered for Results

At Sigma Petroleum Services, we provide advanced oilfield solutions that respond to the evolving demands of the energy sector.
From performance optimization to large scale project execution, our capabilities are built on:

- Extensive inventory of certified materials and equipment.
- Highly experienced technical and operational teams.
- Comprehensive project management and consultancy services.

Technical & Industrial Supply Capabilities

"Strategic Trading, Stocking & Supply Solutions .. Reliable Materials - Proven Standards."

As a trusted trader, stockist, and supplier to the oil, gas, energy, and industrial sectors, SIGMA maintains a robust inventory of certified materials and equipment, enabling rapid response, reliable sourcing, and uninterrupted project support across diverse operational requirements.

- Carbon Steel Line Pipes (Seamless & Welded), sizes from ½" to 48".
- Carbon Steel Fittings & Flanges.
- Coating & Lining solutions.
- Stainless Steel Plates, Pipes, and Pipe Fittings.
- Offshore Structural Materials.
- Multistage Centrifugal Pumps.
- Casing and Tubing in accordance with API / 5CT standards.
- Valves: Ball, Gate, and Check Valves.
- Instrumentation Fittings.
- Control Valves.
- Pressure Switches & Pressure Gauges.

Sigma's Services & Scope of Work

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Sigma's Services & Scope of Work

Sigma Petroleum Services delivers integrated solutions across the oil & gas production cycle from early production facilities and well testing to optimization, energy efficiency, and production enhancement solutions.

- EPC for Early Oil Production Facilities.
- EPC for Early Gas Production & Treatment Facilities.
- Mobile & Surface Well Testing Services.
- Produced Water Treatment & Injection Disposal.
- Gas Compression Stations (Rental & Operation).
- Gas to Power Services.
- Flared Gas Recovery & Zero Flaring Systems.
- Zero Pressure Manifold Solutions.
- Flash By & Pulling Unit Services.
- Production De bottlenecking Solutions.
- Rental of Oil & Gas Production Equipment.

Other Scope of Work

Trusted Global Brands .. Reliable Performance.

Marine Division – Authorized Distribution

- **Suzuki** – Outboard Motors
- **Zodiac** – Inflatable Boats
- **Sea Doo** – Jet Skis

Sigma's Early Production Facilities

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Accelerate Your Oilfield Success with Sigma's Early Production Facilities

At Sigma Petroleum Services, we've been redefining production facility solutions since 2001.
As a trusted leader in delivering fast track, cost efficient systems, we offer turnkey solutions on a lease, operate, and maintain basis tailored to short and long term projects across Egypt, the Middle East, and Africa.
Our EPFs empower clients to capitalize on new discoveries swiftly, with deployment timelines as short as 15-21 days for oil facilities and 4 months for gas facilities.
By reducing initial capital commitments generate cash flow from day one, our solutions enable you to unlock early revenue streams, optimize reservoir performance, and achieve substantial returns on investment all while maintaining operational agility.
Backed by a ready to deploy fleet of equipment and a highly skilled team, Sigma designs, supplies, installs, commissions, and operates EPFs to meet your unique project requirements.
Whether it's for small to mid sized fields or large scale production .
we deliver results that exceed expectations.

Experience the Sigma Edge

- Early Cash Flow: Fast track your revenue generation.
- Minimal Upfront Costs: Preserve your capital with efficient leasing options.
- Unmatched Speed and Reliability: Projects delivered with a track record of unrivaled timelines.
- Modular Flexibility: Prefabricated designs ensure production optimization and reconfiguration as your needs evolve.

With state of the art engineering and superior quality, we set new standards in oilfield technology.

Engineered for Safety, Built for Performance

Our modular EPF solutions deliver speed, flexibility, and performance designed to get your field online faster and operating smarter .
Every system is developed under rigorous process safety reviews ensuring reliable, compliant, and safe operations from day one.
Benefit: Minimizes risk , accelerates regulatory approval , Rapid deployment and lower CAPEX.

Production & Processing Systems

- Ultra low pressure manifolds for oil and gas.
- Crude stabilization systems.
- Heater treaters.
- Electrostatic desalters/dehydrators.
- Two phase and three phase separators.
- Free Water Knockouts (FWKO).
- Pumping systems.
- Storage solutions.

Empowering Your Operations with our Production Enhancement Solutions

When performance matters most, we are your trusted partner in optimizing production and process. Our mission is to elevate your operations with innovative, tailored strategies that ensure uptime, efficiency, and long term success, **Our Promise:**

- **Expert Problem Solvers:** Combining deep industry knowledge with practical expertise, our team identifies challenges and implements transformative solutions that enhance equipment performance and reliability.
- **End to End Support:** From diagnostics and audits to installation, commissioning, and ongoing maintenance, we provide seamless service that keeps your operations running at peak capacity.
- **Rapid Deployment:** With a global network and local expertise, we're always within reach, offering quick access to premium equipment solutions, whether for purchase or lease.

Empowering Your Operations with our Production Enhancement Solutions

Supported by cutting edge engineering and advanced technology, we deliver results that set a new standard for performance, Our commitment to innovation and quality ensures your business stays ahead of the competition. Let us redefine what's possible for your operations partner with us to unlock new levels of success.


Gas Treatment Systems
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Pipeline Quality Gas On Time .. Every Time.

When your gas must meet strict specifications fast you need more than equipment.
You need a partner who delivers fully integrated, field proven treatment systems that perform from day one, anywhere in the world, Sigma Petroleum Services brings extensive experience in the end to end delivery of modular gas treatment plants from engineering and supply to installation, commissioning, and operation for oil and gas fields worldwide.

Our solutions are engineered to reliably process both associated and non associated gas streams across the most demanding conditions: **high pressure, variable composition, high CO_2 content, and wet gas environments.**

We specialize in standalone and integrated gas treatment facilities, designed to support early production, phased field development, and long term processing strategies.

Built on a modular, skid mounted philosophy, our plants enable:

- Rapid deployment with minimal site footprint.
- Easy transportation to remote or constrained locations.
- Reduced civil works and faster mobilization.
- Flexible, phased capacity expansion as your field evolves.

From contract to first gas in as little as four months accelerating revenue, reducing risk, and delivering certainty where it matters most.

All gas treatment plants are engineered and operated in full compliance with international codes and standards including API, ASME, NFPA, and IEC and feature fully automated Distributed Control Systems (DCS), backed by independent Emergency Shutdown (ESD) and Fire & Gas (F&G) systems to ensure the highest levels of safety, reliability, and operational integrity.

Plant Capacities & Modular Scalability

Plant Capacities & Modular Scalability, Sigma's modular design philosophy ensures your gas treatment facility evolves with your field starting lean for early production and scaling seamlessly as reserves are confirmed and demand grows.

Our standardized capacity tiers are engineered for speed, efficiency, and future expansion:

- **Small Scale / Early Production 10 MMSCFD**
  Ideal for appraisal wells, pilot programs, and rapid monetization of stranded or associated gas.
- **Mid Range Processing 60 – 120 MMSCFD**
  Optimized for medium fields and phased development—balancing performance with cost control.
- **Large-Scale Central Processing 180 – 360 MMSCFD**
  Built for long term hubs, Main gas trunklines, or integrated field centers requiring maximum uptime and reliability.

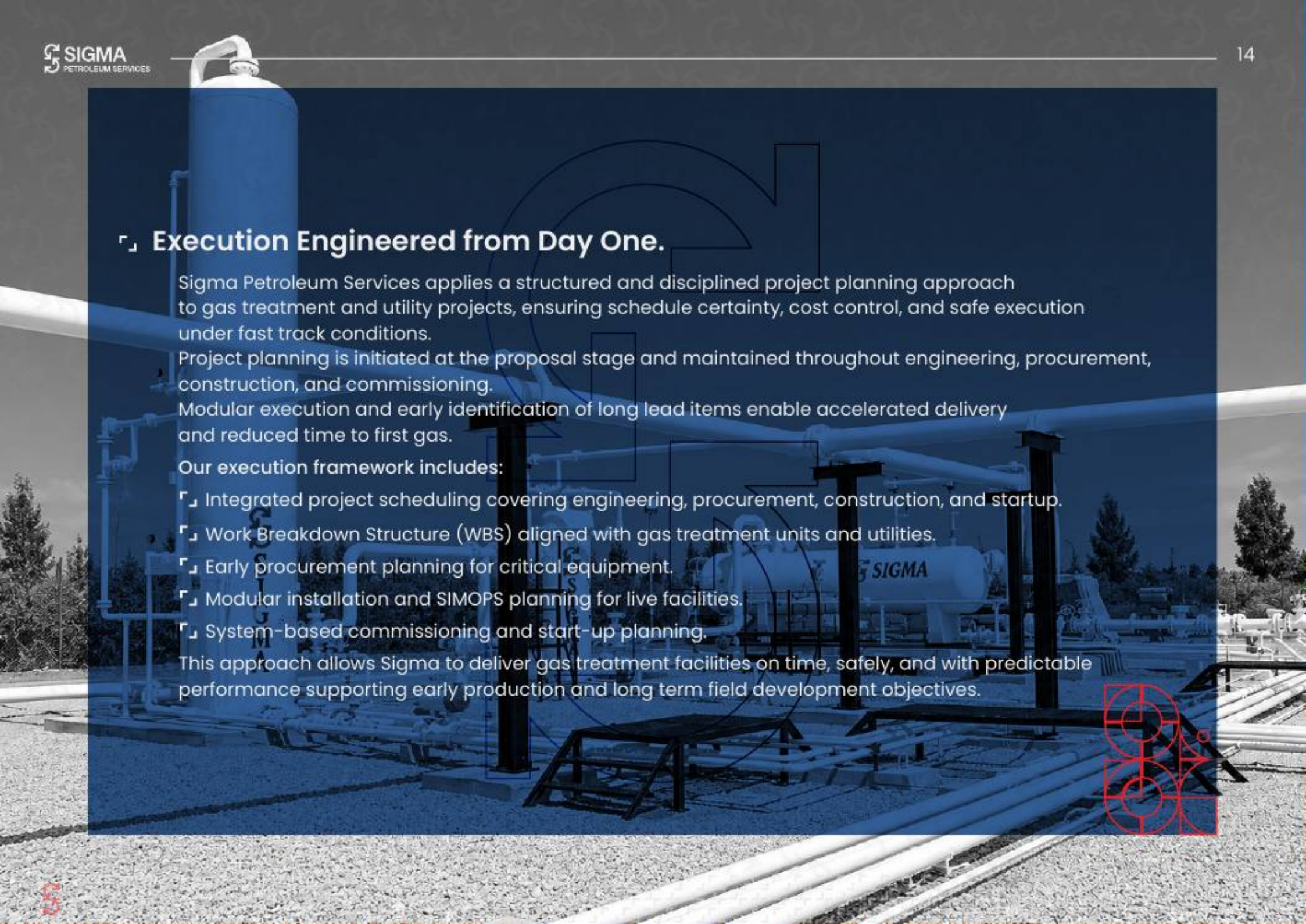
All capacities are delivered via parallel skid configurations, enabling future debottlenecking or expansion without interrupting production.

This means you invest only what you need today while securing the flexibility to scale tomorrow.

Technical Scope of Supply Ready to Go Gas Treatment Units

Unit Category	Key Components & Equipment
Inlet Receiving & Separation	Inlet ESD valve, slug catcher (if required), desander, 2phase / 3phase horizontal separator.
Gas Compression	Inlet/outlet scrubbers, reciprocating compressors, inter stage coolers, discharge coolers.
Gas Sweetening (Amine Unit)	Amine contactor, regenerator (stripper) column, reboiler, reflux drum, lean/rich amine heat exchangers, circulation pumps, filtration & reclaiming package.
Glycol Dehydration (TEG)	Contactor column, reboiler, still column, surge drum, circulation pumps, stripping gas system.
JT Dew Point Control	JT valve, gas/gas heat exchangers, gas/liquid heat exchangers, cold 2 phase separator.
Refrigeration / Chilling	Refrigeration compressors, condenser, evaporator/chiller, surge drum.
Mercury Removal Unit (MRU)	Mercury removal beds, bypass.
Gas Filtration & Coalescing	Filter separators, coalescing elements, particulate filters.
Fuel Gas Conditioning	Pressure reduction skids, heaters, coalescers.
Custody Transfer Metering	Ultrasonic flow meters, gas chromatographs, flow computers.
Condensate Stabilization	Stabilizer column, reboiler, preheater, air cooler.
Condensate Export	Storage tanks, transfer pumps, custody metering skids.
Produced Water Handling	Skimmer vessels, hydrocyclones, filters, transfer pumps.

Unit Category	Key Components & Equipment
Acid Gas Handling / Disposal	Acid gas incinerators, compression for reinjection, knockout drum.
Chemical Injection Systems	Corrosion inhibitor, hydrate inhibitor (MEG/MeOH), scavenger injection skids.
Flare & Blowdown System	Flare stack, knockout drum, seal drum, ignition system.
Utilities – Instrument Air	Air compressors, dryers, receivers.
Utilities – Power Generation	Diesel / gas generators, MCCs, UPS, batteries.
Utilities – Fire Protection	Firewater pumps, storage tanks, deluge & foam systems.



Execution Engineered from Day One.

Sigma Petroleum Services applies a structured and disciplined project planning approach to gas treatment and utility projects, ensuring schedule certainty, cost control, and safe execution under fast track conditions.

Project planning is initiated at the proposal stage and maintained throughout engineering, procurement, construction, and commissioning.

Modular execution and early identification of long lead items enable accelerated delivery and reduced time to first gas.

Our execution framework includes:

- Integrated project scheduling covering engineering, procurement, construction, and startup.
- Work Breakdown Structure (WBS) aligned with gas treatment units and utilities.
- Early procurement planning for critical equipment.
- Modular installation and SIMOPS planning for live facilities.
- System-based commissioning and start-up planning.

This approach allows Sigma to deliver gas treatment facilities on time, safely, and with predictable performance supporting early production and long term field development objectives.

Engineered to Certify.. Built to Perform.

Sigma delivers a complete suite of multidisciplinary engineering work products ensuring technical integrity, regulatory compliance, and seamless execution from concept through commissioning.
Our documentation goes beyond minimum requirements to de-risk your project and accelerate approvals.

From contract to first gas in as little as four months accelerating revenue, reducing risk, and delivering certainty where it matters most.

Process Engineering

- Process Design Basis defining operating conditions, gas composition, pressures, temperatures, and turndown ratios.
- Process Flow Diagrams (PFDs) and Piping & Instrumentation Diagrams (P&IDs) covering all treatment, utility, and safety systems.
- Process Simulations to verify performance under all operating scenarios.

Process Safety Studies

- HAZID (Hazard Identification).
- HAZOP (Hazard and Operability Study).
- SIL (Safety Integrity Level) Assessments.
- LOPA (Layer of Protection Analysis).
- Flare & Relief System Design, including relief valve sizing, blowdown calculations, and radiation studies in compliance with API 521.

Mechanical & Structural Engineering

- Skid General Arrangement (GA) Drawings with 3D layouts.
- Equipment Datasheets.
- Mechanical Design & Structural Calculations, including skid integrity, lifting analysis, and wind/seismic loads.
- Piping Isometrics and Stress Analysis for both on-skid and interconnecting piping systems.

Electrical, Instrumentation & Control

- Control Philosophy covering DCS, ESD, and F&G logic.
- Instrument Index and Datasheets for transmitters, control valves, analyzers, and custody metering systems.
- Electrical Single Line Diagrams (SLDs) and load schedules for power distribution and generation.
- Cause & Effect Diagrams defining emergency shutdown, isolation, and fire protection responses.

Civil & Safety Documentation

- Fire water demand schedules, pump curves, and deluge system layouts.
- Civil foundations design and interface drawings (as required).

This comprehensive engineering process ensures your facility is operationally sound and built to last.

Engineered to Certify.. Built to Perform.

Sigma Petroleum Services has successfully delivered and operated small, medium, and large scale gas treatment facilities across Egypt processing hundreds of MMSCFD for major international operators and joint ventures.
Two landmark projects demonstrate our speed, scale, and reliability:

Nidoco EPF – Phase I
Client: ENI / EGPC | Operator: Petrobel | Engineering Review: ENPPI

- 180 MMSCFD gas processing capacity.
- 800 BBL/day condensate production.
- Completed in just 3 months—one of the fastest gas facilities ever built in Egypt.

Such success secured Sigma's leadership in rapid-deployment and early production.

Nidoco EPF – Phase II
Client: ENI / EGPC | Operator: Petrobel | Engineering Review: ENPPI

- 360 MMSCFD treated gas capacity.
- 1,600 BBL/day condensate production.
- Supplies Egypt's largest power generation plant.
- Completed in just 6 months which was a main source to feed BRULLUS power station with Gas.

Both facilities are owned by ENI & EGPC, engineered under ENPPI review, and fully operated and maintained by Sigma a testament to the trust placed in our end to end delivery model.

This project stands as Sigma's largest gas treatment facility to date demonstrating our proven ability to deliver mission critical energy solutions for the nation.

Strategic Impact of the Nidoco EPF Projects (Phase I & II)

The Nidoco Early Production Facilities (EPF) Phases I and II stand as landmark achievements in Egypt's gas sector, showcasing Sigma Petroleum Services' ability to rapidly monetize gas resources at scale while delivering tangible economic value to the nation.

Fast-Track Development & Execution Strategy

Both projects were delivered under Sigma's modular, rental based EPF model, enabling early gas production without waiting for permanent infrastructure, From engineering to first gas, the facilities were fully operational in just 3.5 months a fraction of conventional timelines, Key enablers of this accelerated delivery included:

- Pre-engineered, skid mounted gas treatment modules.
- Parallel execution of engineering, procurement, and construction.
- Early procurement of long lead equipment.
- Maximum offsite fabrication and pre-commissioning.
- Integrated operations and maintenance readiness from day one.

This approach dramatically reduced project risk, eliminated traditional bottlenecks, and set a new benchmark for speed and reliability in Egypt's upstream sector.

Early Gas Monetization & National Impact.

By achieving first gas in less than four months, the Nidoco EPF projects delivered immediate and far reaching benefits to Egypt's energy landscape and economy:

- Rapid conversion of stranded reserves into revenue, eliminating costly shut-in periods.
- Immediate supply of pipeline-quality gas to the national grid and power sector supporting energy stability.
- Reduced reliance on fuel imports, strengthening national energy security.
- Accelerated cash flow for ENI and EGPC, enabling better ROI.
- Maximized liquid value through condensate production—adding a high-margin revenue stream.

Phase I alone brought 180 MMSCFD of treated gas and 800 BBL/day of condensate online in record time. Phase II doubled that impact delivering 360 MMSCFD and 1,600 BBL/day making Nidoco one of the most significant early production developments in Egypt's history.
From fast-track pilots to national-scale operations, Sigma delivers gas treatment that powers progress.

Gas Production Facility – 60 MMSCFD
Client: RWE / EGPC | Operator: SUCO

- 60 MMSCFD gas processing capacity.
- Long-term operations & maintenance by Sigma Petroleum Services.

Validates Sigma's capability in reliable, mid-scale production facilities with sustained operational excellence.

Multi-Site Gas Compression project
Client: KHALDA / EGPC

- 3 remote sites, each handling up to 30 MMSCFD.
- Full lifecycle delivery: supply, installation, construction, operations & maintenance by Sigma.

Showcases our agility in deploying scalable, temporary compression solutions across distributed fields without compromising performance or safety.

Together, these projects prove that speed, scale, and strategic execution can transform gas potential into national progress fast.

Well Testing Services

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Precision Data .. Smarter Decisions .. Proven Performance.

At SIGMA, well testing is more than a service it is a critical tool for understanding reservoir behavior, optimizing production performance, and enabling smarter field development decisions.
With over many years of operational experience across Egypt, the Middle East, and Africa, SIGMA delivers premium well testing solutions designed to perform in the industry's most demanding environments, including high flow wells, sour service conditions, compact locations, and remote field operations.
Driven by innovation, operational excellence, and a client-first approach, SIGMA combines experienced personnel, advanced technologies, and one of the region's largest readily deployable equipment fleets to provide safe, fast, reliable, and high precision testing services.
Whether supporting exploration, appraisal, production optimization, water flooding operations, or sand management programs, our solutions are engineered to deliver actionable reservoir intelligence safely and efficiently.

Why Operators Choose SIGMA

- **Efficient & Accurate Testing**: Advanced methodologies and proven field practices deliver precise, reliable data that supports confident decision making.
- **Advanced Equipment Fleet:** From high pressure and sour service systems to trailer mounted testing units for hard to reach locations, our equipment is engineered for flexibility, performance, and reliability.
- **Real Time Data Access:** ecure online portals, advanced SCADA integration, and real time monitoring systems provide instant visibility into testing operations and production performance.
- **Expertise You Can Trust:** Our multidisciplinary specialists work closely with operators to develop tailored testing solutions that maximize operational value and reservoir understanding.

Extended Well Testing Solutions.

SIGMA's Extended Well Testing (EWT) solutions provide operators with comprehensive long duration production data essential for reservoir characterization, field development planning, production forecasting, and optimization strategies.

Designed to simulate actual production conditions, our EWT packages enable operators to accurately evaluate reservoir performance, fluid behavior, pressure response, and long term well productivity before permanent production facilities are installed.

Our fully integrated EWT systems incorporate high capacity separators, surge tanks, flare systems, transfer pumps, sand handling equipment, storage facilities, and advanced data acquisition technologies capable of supporting extended production campaigns under complex operating conditions.

Supported by advanced SCADA integration and real-time monitoring capabilities, SIGMA provides continuous live production data, remote operational visibility, and immediate performance analysis, enabling faster decision making, improved production forecasting, and enhanced reservoir management.

Mobile Well Testing Units.

For fast-track operations and remote field applications, SIGMA offers a fleet of advanced trailer mounted Mobile Well Testing Units engineered for rapid mobilization, operational flexibility, and high performance testing capabilities. Designed for exploration wells, early production testing, clean-up operations, and temporary production applications, these compact and fully integrated systems deliver reliable performance where speed, mobility, and operational efficiency are critical.

With more than 20 Mobile Test Units operating across the Middle East and North Africa, SIGMA has established itself as one of the region's leading providers of mobile well testing services.

To provide a complete understanding of reservoir and well performance, our mobile testing operations are supported by dedicated laboratory facilities equipped with advanced fluid sampling, measurement, and analysis technologies, delivering deeper insight into reservoir dynamics, fluid behavior, productivity trends,
and production optimization opportunities.

Technology Driven Testing Operations.

At SIGMA, technology is at the center of operational excellence. Our testing systems leverage advanced SCADA platforms, automated data acquisition systems, digital instrumentation, and real time monitoring technologies to provide continuous visibility into well performance and reservoir behavior.
Through secure live data access and real-time reporting, operators can monitor flow rates, pressures, temperatures, choke performance, fluid properties, and production trends from anywhere in the world.
By combining automation, remote monitoring, and intelligent analytics, SIGMA transforms raw production data into actionable operational insight helping operators reduce uncertainty, optimize production strategies, maximize recovery, and improve overall field performance.

Operational Readiness Across the Region.

SIGMA maintains one of the region's most comprehensive well testing equipment inventories, enabling immediate deployment and fast track project execution across Egypt, the Middle East, and Africa.
Our extensive fleet includes high pressure and sour service equipment, separators, choke manifolds, flare systems, pumping units, sand management equipment, storage systems, instrumentation packages, and trailer mounted testing units available for rapid mobilization.
This operational readiness ensures faster response times, reduced lead times, maximum reliability, and uninterrupted project execution even under the most challenging operating conditions.
From exploration to production optimization, SIGMA delivers the reservoir intelligence that drives confident decisions, maximizes asset value, and unlocks long term field performance.

Built on precise testing .. Trusted for production decisions.

Produced Water Treatment & Reinjection Solutions

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Transforming Produced Water into Sustainable Reservoir Value.

SIGMA transforms produced water from an operational challenge into a strategic reservoir asset through advanced Produced Water Treatment and Reinjection Systems engineered for Enhanced Oil Recovery (EOR).

By converting produced water into a reusable injection resource, operators can enhance reservoir pressure support, improve hydrocarbon recovery, reduce water management costs, and strengthen environmental compliance while maximizing long term field performance.

Our integrated solutions enable operators to recover, treat, store, and safely reinject produced water back into the reservoir, significantly reducing freshwater dependency and eliminating the environmental burden associated with conventional disposal methods such as evaporation ponds.

The result is a smarter, more sustainable approach to water management that delivers measurable operational, economic, and environmental value throughout the life of the asset.

Engineered for Performance Designed for Sustainability.

Combining advanced multi stage filtration, precision chemical treatment, and field proven water management expertise, SIGMA delivers complete treatment and reinjection systems that enable operators to:

- Maximize water reuse and injection efficiency.
- Enhance reservoir pressure support and recovery factors.
- Reduce operational costs and freshwater dependency.
- Minimize wastewater disposal requirements and environmental impact.
- Achieve regulatory compliance without compromising operational reliability.
- Extend field life and improve long term production performance.

Our modular treatment packages are engineered to process up to 10,000 BBL/day while consistently achieving treatment efficiencies exceeding 95% across produced water quality parameters.
Fully modular, skid-mounted, and pre-engineered, each system is designed for rapid mobilization, streamlined installation, and accelerated project execution.
With installation, commissioning, and startup achievable in as little as three weeks, operators can reduce project lead times, minimize production interruptions, and accelerate value realization.
Designed for maximum flexibility, SIGMA systems can be rapidly deployed, expanded, or adapted to varying field conditions while maintaining a minimal operational footprint in both remote and brownfield environments.

Empowering Your Operations with our Production Enhancement Solutions

SIGMA's treatment process is engineered to consistently deliver reinjection ready water quality while protecting reservoir integrity and injection infrastructure.

Primary Treatment

Initial separation and conditioning remove free oil and contaminants from the produced water stream. High-efficiency oil skimmers maximize hydrocarbon recovery and minimize oil losses, converting waste streams into additional production value.

Nourish & Advanced Filtration

Produced water progresses through a multi-stage filtration and polishing process utilizing oil filtration units, sand filters, and cartridge filtration systems specifically engineered to significantly reduce Total Suspended Solids (TSS) and residual hydrocarbons.

Clean Water Storage & Reinjection

Following treatment, conditioned water is transferred to dedicated storage systems and delivered through integrated pumping solutions for safe, reliable, and efficient reservoir reinjection operations, supporting sustained injection performance and optimized reservoir pressure maintenance.

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Proven Results. Measurable Value.

Beyond operational performance, SIGMA's Produced Water Treatment and Reinjection Solutions deliver measurable environmental and sustainability benefits.

By significantly reducing freshwater consumption, minimizing wastewater disposal requirements, and limiting emissions associated with trucking, disposal handling, and evaporation ponds, operators can substantially reduce the environmental footprint of their operations.

A standard SIGMA modular produced water treatment and reinjection project can contribute to the reduction of approximately 3,500 tons of CO_2 equivalent (CO_2e) annually, supporting both production optimization and sustainability objectives.

Across the African continent, SIGMA's Produced Water Treatment and Reinjection Systems are consistently delivering higher recovery factors, reduced OPEX, extended field life, lower carbon footprints, stronger environmental compliance, and sustainable long-term operational performance.

Your greatest recovery opportunity isn't only beneath the surface, it may already be flowing through your produced water stream.

Gas Compression Solutions

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Uptime Drives Production. Reliability Protects Revenue.

In today's oil and gas operations, compressor downtime is more than a maintenance issue it is deferred production, lost revenue, and increased operational risk. When production targets are non negotiable, operators need compression solutions that deliver immediate availability, continuous performance, and uncompromising reliability.

At SIGMA, we provide rapid deployment Gas Compression Solutions engineered to maximize uptime, optimize production performance, and support long term operational success. Backed by one of the region's largest readily available compression equipment fleets, SIGMA delivers fully integrated compression systems designed to keep production moving, reservoirs flowing, and operations running at peak efficiency.

Whether supporting natural gas compression, gas gathering systems, vapor recovery operations, wellhead gas boosting, gas plant compression, flare gas recovery, production optimization programs, or central compression facilities, SIGMA delivers scalable solutions tailored to real-world field requirements.

Not Just Equipment. An Extension of Your Operations Team.

SIGMA delivers more than compression packages we provide complete operational support designed around production continuity and asset performance.

Our compression solutions enable operators to:

- Accelerate production startup through immediate equipment availability
- Eliminate lengthy manufacturing and procurement lead times
- Scale compression capacity as reservoir conditions evolve
- Reduce capital expenditure through flexible rental and leasing solutions
- Maintain production continuity through proactive operational support
- Minimize downtime risk with dedicated field service and rapid response maintenance teams

With a success model directly linked to client production performance, SIGMA operates as a true operational partner focused on protecting uptime, maximizing throughput, and delivering measurable production value.

Engineered for Performance.
Built for Continuous Operation.

SIGMA maintains an extensive fleet of single stage, two stage, and three stage compressor packages engineered to accommodate varying gas compositions, pressure requirements, flow rates, and operating environments. Available in both gas engine driven and electric motor driven configurations, our compression packages range from 500 HP to 2,000 HP and support applications ranging from low pressure wellhead boosting to high volume gas gathering systems and complex sour gas operations.

All electric drive systems are equipped with Variable Frequency Drives (VFDs), providing enhanced operational control, energy efficiency, process optimization, and flexible performance management.

Fully integrated, skid mounted, and designed for seamless field deployment, SIGMA compression systems minimize installation complexity while enabling rapid integration into existing production infrastructure.

Ready to Deploy Compression Assets.

Unlike traditional procurement models that require extended manufacturing and delivery schedules, SIGMA maintains a substantial inventory of compression assets available for immediate mobilization. Whether deploying a single compressor package, expanding existing facilities, or establishing a complete central compression station, operators benefit from faster deployment, reduced project lead times, accelerated production startup, and improved return on investment.

Supporting infrastructure includes ASME-coded vessels and coolers, Class I Division II electrical compliance, integrated PLC control systems, VFD drives, and both skid-mounted and trailer mounted configurations available for lease, or rental.

This operational readiness allows operators to respond rapidly to changing production demands, evolving reservoir conditions, and time sensitive project requirements without compromising performance or reliability.

Proven Where It Counts.

SIGMA compression systems are engineered for continuous heavy duty operation under demanding field conditions. Through proactive maintenance programs, dedicated operations support, continuous equipment monitoring, and rapid field response capabilities, SIGMA consistently achieves operational availability exceeding 98%.

Our integrated capabilities cover the complete project lifecycle, including:

- Engineering and system design.
- Installation and commissioning.
- Operations and maintenance support.
- Equipment supply and mobilization.
- Startup and performance optimization.
- Long term field service management.

From remote wellheads to high volume gas processing facilities, SIGMA compression solutions are trusted to deliver reliable performance where operational continuity matters most.

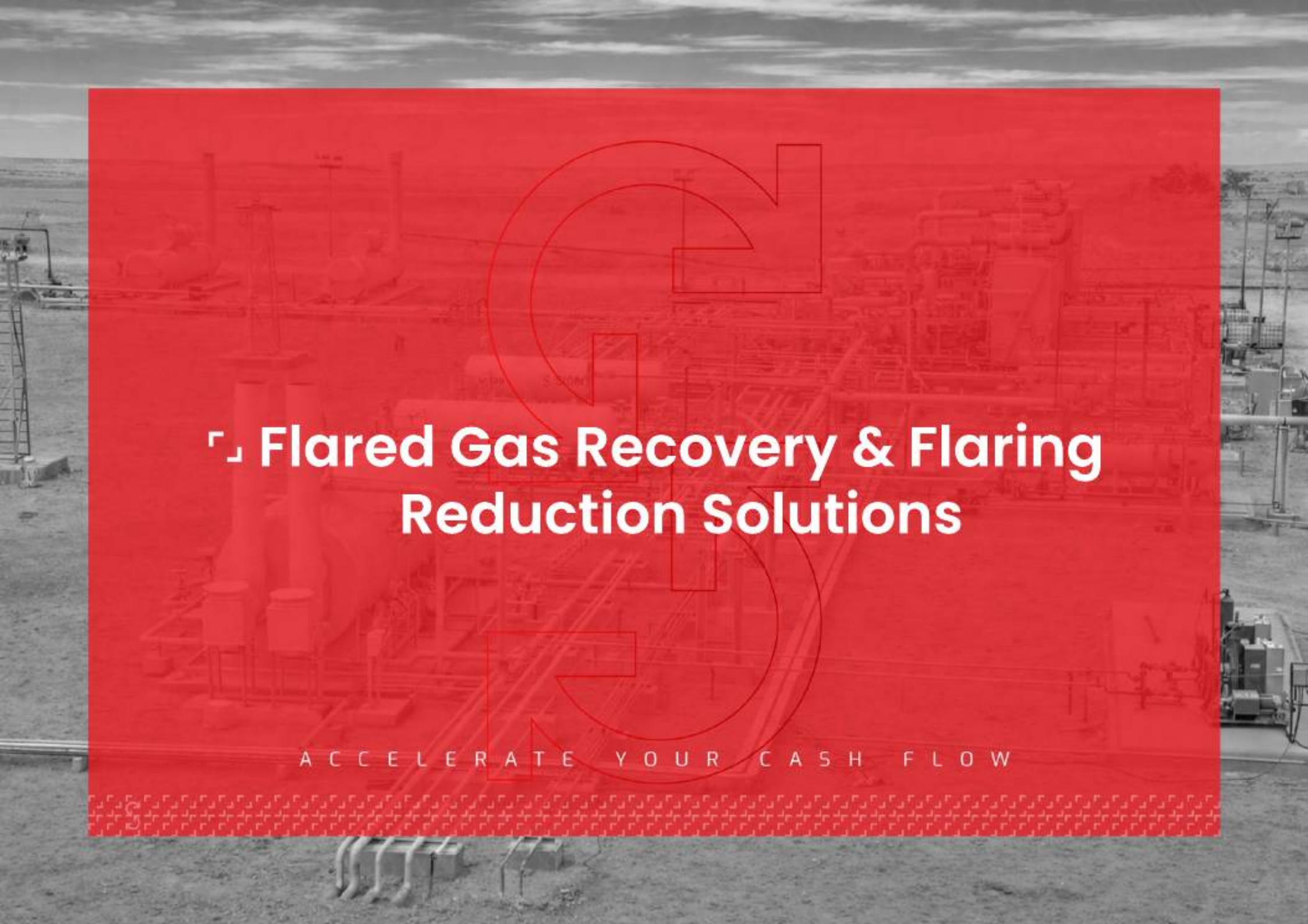
Vapor Recovery Units (VRU).

SIGMA's Vapor Recovery Units (VRUs) transform emissions into value by capturing hydrocarbon vapors that would otherwise be vented or flared and converting them into recoverable production streams.
With more than 40 VRU packages available in stock, SIGMA offers one of the region's most comprehensive vapor recovery capabilities.
Available in both electric motor driven and gas engine driven configurations ranging from 75 HP to 300 HP, our VRU systems support tank batteries, production facilities, stabilization systems, and gas handling operations across a wide range of operating environments.
By reducing flaring, lowering greenhouse gas emissions, improving environmental compliance, recovering valuable hydrocarbons, and minimizing product losses, SIGMA's VRU solutions help operators improve profitability while advancing lower carbon operations.
From individual compressor packages to full central compression stations, SIGMA delivers compression solutions deployed faster, running longer, and producing more.

Compressors:

- Ajax Compressors
  2801
  2802 (Gas driven) UP to 5 MMSCFD
  2804
- Ariel compressors
  JGK4 (1550 hp) UP to 10 MMSCFD
  JGU2 (2000 hp) UP to 60 MMSCFD
- Dresser Rand compressors
  Up to 18.5 MMSCFD

Ingersoll Rand



Flared Gas Recovery & Flaring Reduction Solutions

ACCELERATE YOUR CASH FLOW

Turning Wasted Gas into Revenue and Environmental Value

Every cubic meter of gas sent to the flare stack represents lost production, lost revenue, and lost opportunity. As operators face increasing pressure to improve environmental performance while maximizing asset value, flaring reduction has evolved from a compliance requirement into a strategic operational priority.

At SIGMA, we deliver integrated Flared Gas Recovery Solutions that enable operators to minimize routine flaring and transform wasted gas into valuable, monetizable production streams. By recovering gas that would otherwise be permanently wasted, operators can improve project economics, enhance operational efficiency, reduce emissions, and unlock additional value from existing assets without major changes to production infrastructure.

Through the recovery and utilization of flared gas, operators can significantly reduce CO_2 emissions, lower **dependence on diesel-powered generation, and recover valuable gas, condensate, and LPG streams that directly** contribute to production targets and financial performance.

Transforming Environmental Obligations into Commercial Opportunity

SIGMA's flared gas recovery systems are engineered to safely capture, condition, compress, and manage flare gas across a wide range of operating conditions—from low-flow well pads to large-scale central processing facilities.

Designed for seamless integration into existing operations, our solutions minimize operational disruption while providing flexible utilization pathways tailored to site-specific requirements, including power generation, gas processing, and export to central treatment facilities.

By combining proven compression technologies, modular system design, and operational expertise, SIGMA helps operators convert emissions reduction initiatives into long-term revenue-generating opportunities.

Proven at Scale .. Delivered in the Field.

- One of SIGMA's most significant flared gas recovery achievements is the successful execution of a multi-site gas compression and recovery project for Khalda Petroleum across three geographically dispersed production locations in Egypt's Western Desert.
- At each site, associated gas that was previously being flared was captured directly at the wellhead, conditioned to remove liquids and contaminants, and compressed for onward delivery to a central gas treatment facility for processing and downstream utilization.
- Each location was designed to handle up to 30 MMSCFD of gas, demonstrating SIGMA's ability to deploy scalable recovery solutions across distributed field operations while maintaining the highest standards of safety, reliability, and process performance.
- SIGMA provided full cycle project delivery, including engineering, equipment supply, installation, construction, commissioning, operations, and ongoing maintenance support across all three remote locations.

Measurable Environmental Impact .. Proven Commercial Value.

Over three years of continuous operation, the project prevented the release of approximately 180,000 tons of CO_2 equivalent (CO_2e), delivering a significant contribution to both operator sustainability targets and national emissions reduction initiatives.

Beyond its environmental impact, the project continues to generate substantial commercial value by transforming previously wasted gas into productive hydrocarbon streams, reducing reliance on diesel-powered generation, improving energy efficiency, and enhancing the overall economics of the producing concessions.

Gas that was once lost through flaring is now contributing directly to production performance, energy supply, and long-term project returns.

Engineered for Long-Term Performance

Backed by experienced engineering and operational teams, SIGMA works closely with operators to design and deploy flexible, reliable flared gas recovery solutions that balance environmental responsibility with operational performance and commercial success.

From standalone recovery systems to large-scale integrated gas utilization projects, SIGMA helps operators reduce emissions, recover value, improve energy efficiency, and transform flaring reduction initiatives into sustainable business opportunities.

Turning emissions reduction into production growth, revenue recovery, and long-term operational value.

Gas to Power Solutions

ACCELERATE YOUR CASH FLOW

From Stranded Gas to Reliable Power.. From Operational Cost to Strategic Value.

- At SIGMA, we transform associated and flared gas into dependable electrical power, enabling operators to unlock greater value from existing hydrocarbon resources while reducing operating costs and improving environmental performance.
  Our integrated Gas-to-Power Solutions convert underutilized gas streams into a reliable and sustainable energy source that supports production continuity, enhances energy independence, and improves overall project economics.
- By utilizing gas that would otherwise be flared or wasted, operators can significantly reduce reliance on diesel-based power generation, lower fuel transportation and operating costs, minimize emissions, and create a more efficient and sustainable operating model across production and processing facilities.

Unlocking More Value from Every Molecule

- SIGMA's Gas-to-Power solutions begin with dedicated gas pre-conditioning and treatment systems designed to ensure full compliance with generator fuel specifications. This critical stage protects equipment integrity, optimizes combustion performance, and maximizes overall generation efficiency.
  Once conditioned, the gas is utilized to power high-efficiency gas generators capable of delivering reliable electrical power for on-site production and processing facilities or export to local and national utility grids where applicable.
  In parallel, valuable Natural Gas Liquids (NGLs) can be recovered during the conditioning process, creating additional revenue streams while maximizing the utilization of available hydrocarbon resources. This integrated approach transforms previously underutilized gas into a productive energy asset that contributes directly to operational performance and commercial returns.

Engineered for Seamless Integration.

Designed around flexibility, scalability, and long-term reliability, SIGMA's Gas-to-Power solutions are engineered for seamless integration into existing production infrastructure with minimal operational disruption.

Supported by experienced engineering and operations teams, SIGMA works closely with operators to design, implement, and optimize solutions tailored to site-specific operating conditions, production objectives, and long-term sustainability goals.

Whether supporting remote production facilities, central processing operations, or grid-connected applications, our systems provide dependable power generation capabilities that enhance operational resilience and improve energy efficiency across the asset lifecycle.

Powering Production .. Advancing Sustainability.

Beyond energy generation, SIGMA's Gas-to-Power solutions help operators achieve broader operational and environmental objectives by reducing routine flaring, lowering greenhouse gas emissions, minimizing diesel dependency, and improving overall resource utilization.

By converting available gas into dependable power and recoverable products, operators can strengthen energy security, improve project economics, and create long-term value from resources that were previously underutilized.

Transforming stranded gas into reliable power, operational efficiency, and long-term asset value.

Unlocking Additional Production by Eliminating Backpressure

In many mature and declining fields, production performance is not limited by reservoir potential alone—it is often restricted by unnecessary backpressure within the gathering system. SIGMA's Zero-Pressure Manifold Solutions are designed to remove this hidden production barrier, enabling wells to flow more freely, artificial lift systems to operate more efficiently, and operators to recover greater value from existing assets.

By maintaining the production manifold at near-atmospheric conditions, SIGMA minimizes backpressure at the well outlet, allowing each well to produce closer to its natural reservoir potential rather than being constrained by downstream gathering system resistance.

The result is a more efficient production network that maximizes flow, improves asset utilization, and extends the economic life of the field.

A Simple Concept with Significant Production Impact

Reducing wellhead backpressure delivers immediate and measurable production benefits. Lower resistance against producing wells increases total fluid flow rates, improves reservoir deliverability, and enhances overall field performance—particularly in mature and marginal assets where declining reservoir pressure has become a key production constraint.

The zero-pressure manifold concept also enables wells with varying pressure profiles to operate within a common production system without compromising lower-pressure producers.

By pressure penalties across the gathering network, operators can maximize production contribution from the entire well portfolio while improving overall system efficiency.

Zero Pressure Manifold Solutions

ACCELERATE YOUR CASH FLOW

Optimizing Artificial Lift Performance

Operating at zero or near-zero gathering pressure significantly enhances the performance and reliability of artificial lift systems.

ESPs, beam pumps, and other lifting technologies benefit from reduced discharge pressure, resulting in:

- Improved pump efficiency and production performance
- Extended equipment operating life
- Improved production stability and operational reliability
- Reduced energy consumption
- Lower intervention frequency and maintenance requirements

These benefits translate directly into lower operating costs, increased equipment longevity, and stronger long-term field economics.

Greater Flexibility .. Higher Asset Utilization.

By allowing low-pressure and high-pressure wells to coexist on the same production manifold, the zero-pressure configuration creates a unified, low-loss gathering system that maximizes operational flexibility and production efficiency.

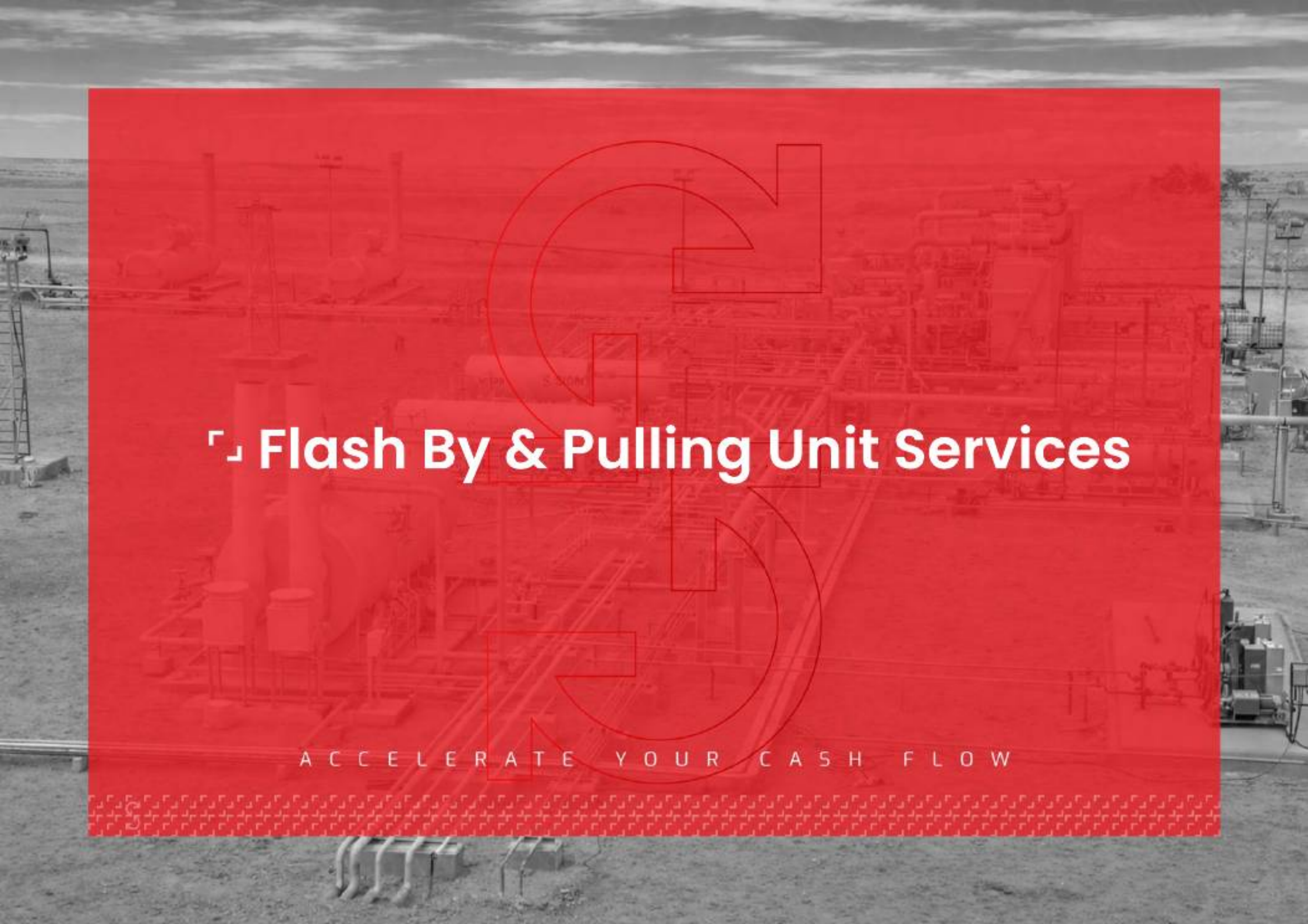
The result is a production network capable of supporting incremental production gains while minimizing surface bottlenecks, gathering system constraints, and unnecessary production losses.

More Than a Manifold .. A Production Optimization Strategy.

A zero-pressure manifold is not simply a piping arrangement—it is a field-wide production optimization solution that helps operators unlock additional reserves, improve artificial lift efficiency, increase production flexibility, and extend the economic life of mature assets.

When integrated with SIGMA's gas handling, gas compression, and Gas-to-Power solutions, the zero-pressure manifold becomes a powerful enabler for transforming incremental production gains into immediate operational and commercial value.

Removing pressure barriers .. Unlocking production potential .. Maximizing asset value.



Flash By & Pulling Unit Services

ACCELERATE YOUR CASH FLOW

Engineered for Well Intervention .. Built for Operational Agility.

When production performance depends on fast, safe, and efficient well intervention, operators need equipment that can mobilize quickly, operate reliably, and adapt to changing field conditions.

SIGMA's Flash-By and Pulling Unit Services deliver a comprehensive well intervention solution designed to support workover operations, completion activities, production maintenance, and well optimization programs across the full well lifecycle.

Utilizing advanced truck-mounted drilling and workover rigs, SIGMA combines mobility, operational flexibility, and field-proven performance to execute intervention programs efficiently in remote locations, restricted sites, and operationally challenging environments where conventional rig solutions may be impractical or cost-prohibitive.

Faster Mobilization .. Greater Operational Flexibility.

Designed for rapid deployment and efficient field execution, SIGMA's pulling units provide the mobility and versatility required to support multi-well intervention campaigns while minimizing operational downtime and mobilization costs.

Mounted on heavy-duty oilfield chassis with advanced hydraulic steering systems and optimized weight distribution, the units deliver exceptional maneuverability, off-road capability, and operational stability across desert environments, remote field locations, and constrained operating areas.

The compact design minimizes surface footprint while enabling operators to access locations that may otherwise require costly infrastructure improvements or alternative intervention methods.

Built for Reliable Well Intervention Performance.

SIGMA provides a broad range of single-drum and double-drum pulling units with varying pulling and jacking capacities, allowing solutions to be tailored to specific well conditions, completion designs, and operational objectives.

- Each unit incorporates a fully integrated system including:
  - Mast and drawworks systems
  - Pneumatic, hydraulic, and electrical systems
  - High-performance braking systems
  - Hydraulic winches and hook blocks
  - Weight indication and control systems
  - Integrated control and operational safety features

Designed to meet or exceed applicable API recommendations, all systems are engineered for reliable performance, operational safety, and efficient execution across a wide range of well intervention activities.

Operational Efficiency Without Compromise.

The mast system incorporates flexible telescopic configurations that support rapid rig-up and rig-down operations, enabling efficient execution of workover programs and reducing non-productive time during multi-well campaigns.
Advanced hydraulic and mechanical drive systems work together to maximize operational efficiency, while remote driller controls provide smooth transitions between transport and operational modes, enhancing both safety and productivity throughout the intervention process.

Fully Integrated Support Systems.

To ensure complete operational readiness, every pulling unit can be supported by a comprehensive range of auxiliary equipment and peripheral systems, including:

- Well control equipment.
- Mud pump units.
- Solid control packages.
- BOP (Blowout Preventer).
- High-pressure manifold systems.
- Oil and water storage systems.
- Customized workover floor configurations.

These systems can be deployed as standard packages or customized to meet site-specific operational, production, and safety requirements.

Supporting Production Throughout the Well Lifecycle.

From routine production maintenance and well servicing to complex workover and completion operations, SIGMA's Flash-By and Pulling Unit Services provide operators with the operational agility, reliability, and flexibility required to maximize well performance and minimize downtime.

Maximizing well performance, minimizing downtime, and creating lasting value across the field lifecycle.

Metering Systems & Custody Transfer Solutions

ACCELERATE YOUR CASH FLOW

Certified Accuracy.. Commercial Confidence..Revenue Protection.

In hydrocarbon operations, accurate measurement is more than a technical requirement—it is the foundation of commercial integrity.

Every custody transfer transaction, production report, revenue calculation, and regulatory submission depends on reliable measurement performance.

SIGMA's Metering Systems & Custody Transfer Solutions are engineered to deliver the precision, transparency, and confidence required for critical fiscal and operational applications across gas production, processing, and transportation facilities.

Designed for demanding operating environments, our metering systems provide highly accurate and repeatable flow measurement, enabling operators, off-takers, and regulatory authorities to make commercial decisions with complete confidence.

Engineered for Measurement Integrity

SIGMA's metering systems are designed to operate at absolute pressure levels as low as 1 bar while maintaining exceptional measurement stability across a wide operating range.

Accuracy is achieved through an advanced multi-path ultrasonic measurement design incorporating six measuring paths arranged across three levels.

This configuration provides superior resistance to turbulence, flow disturbances, and changing flow profiles, ensuring reliable performance even under challenging operating conditions.

The result is consistent, high-confidence measurement accuracy where financial accountability and operational transparency are critical.

Certified for Fiscal and Custody Transfer Applications

All metering systems are fully tested and certified in accordance with TR G13 and OIML requirements, with additional air calibration and high-pressure testing performed in compliance with TR G7 standards.

These certifications support the system's suitability for:

- Custody transfer applications
- **Gas production facilities**
- Commercial gas transactions
- Fiscal measurement systems
- **Processing and transportation networks**

By combining certified performance with proven measurement reliability, SIGMA helps operators maintain compliance while reducing commercial uncertainty.

Designed for Reliable Long-Term Performance

The system accommodates flow velocities of up to 40 m/s, allowing greater flexibility in pipeline design while maintaining measurement accuracy.
Robust dirt-repellent titanium sensors are engineered for long-term reliability in demanding field environments, reducing maintenance requirements and supporting continuous operation.
To further minimize downtime, sensors can be exchanged without recalibration, ensuring operational continuity and reducing maintenance-related production interruptions.

Intelligent Monitoring and System Integration

SIGMA's metering solutions incorporate an integrated control computer with flow correction functionality supported by the ERZ 2000 flow computer platform.

Dedicated meter and impulse outputs enable seamless integration with existing control, automation, and monitoring systems, while advanced diagnostic capabilities provided through RMG View PC software support:

- Real-time system monitoring
- Performance verification
- Operational diagnostics
- Data analysis and reporting

This intelligent approach provides operators with enhanced visibility, improved system reliability, and greater confidence in measurement performance.

More Than Measurement .. Confidence in Every Transaction.

From production allocation and fiscal reporting to custody transfer and commercial settlements, SIGMA's metering solutions provide the accuracy, transparency, and reliability required to protect revenue, ensure compliance, and support confident operational decision-making.

Delivering certified measurement accuracy, commercial transparency, and confidence where every cubic meter matters.

SIGMA
PETROLEUM SERVICES

Operations Across MENA & Africa

Egypt | Saudi Arabia | Oman | Libya | Algeria | Kenya | Syria | Morocco

CONTACT US

Egypt Headquarters
Sigma Petroleum Services
General Free Zone, Amreya
Alexandria, Egypt
T: +20 3 481 2620

Cairo Office
Sigma Petroleum Services
40 Palestine Street Extension
New Maadi, Cairo, Egypt
T: +20 2 25176177

Oman Branch
Sigma Petroleum Services Oman
52 Al Iskan Street, Ruwi
P.O. Box 676, Sultanate of Oman
T: +968 24 780 071

Libya Branch
Sigma Petroleum Services
Second Floor, Rashid City Street
Baloun Land, Benghazi, Libya
T: +218 92 179 5363

Saudi Arabia Branch
Sigma Petroleum Services
4992 11A Street, Al Jisr District
Al Khobar 34714
Kingdom of Saudi Arabia
T: +966 50 028 1522

Syria Branch
Sigma Petroleum Services
Building 16, Al Andalus Sector,
Airport Street, Damascus, Syria
T: +963 968077581

sigmagroupegypt.com