Integrated Oilfield Services Provider
The Most Reliable Partner

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China Oilfield Services Limited (COSL) is one of the leading integrated oilfield services providers in the world with over 50 years of experience in offshore operation covering each phase of offshore oil and gas exploration, development and production. COSL is listed on both Shanghai and the HK Stock Exchange. With its four core business segments of geophysical and surveying services, drilling services, well services, marine support and transportation services, COSL not only provides services of single operations for the customers, but also offers integrated package and turkey services. COSL business activities are conducted not only in offshore China, but also extend to Asia-pacific, Middle East, America, Europe and Far East, covering more than 30 countries and regions in the world.
Integrated Oilfield Services Provider

COSL is an all-round offshore oilfield services company that possesses a comparatively complete service chain and covers every phase of oil and gas exploration, development, and production. COSL has become one of the few integrated oilfield services providers that can provide integrated and turnkey services to customers worldwide.

With a reliable guarantee of experienced elite staff, COSL is capable of providing integrated services for drilling design, budget planning, field operations and well completion reporting, site surveying, towing, positioning, drilling, cementing, mud servicing, wire-line logging, directional drilling, mud logging, well completion servicing, acid and fracture servicing, EOR, well testing, coring, ROV, fishing, communicating, and other industry-related tasks, all of which are designed to effectively control risk factors and costs and enable COSL to successfully satisfy clients’ time-sensitivity and cost-reduction requirements. A partial list of COSL’s past clients, both domestic and international include CNOOC, Petro China, Sinopec, Devon Energy, Prime Line, ENI, Husky Oil, and Roc Oil.

Geophysical and Surveying Services
- Offshore seismic acquisition, Seismic data processing and interpretation, offshore surveying, subsea engineering services
- Five 3D vessels, one 2D vessel, one dedicated source vessel, one Ocean Bottom Cable (OBC) teams, five offshore engineering survey vessels and three multifunctional support vessels

Drilling Services
- Providing the operation of offshore drilling, land drilling, module drilling rigs and the management for drilling rigs
- Possessing forty-five drilling rigs, including thirty-four jack-up rigs, eleven semi-submersible rigs, two accommodation rigs and five modular rigs, which are capable to operate in water depth from 15ft to 10000ft.

Well Services
- An integrated suite of well services, comprised of reservoir engineering, program designing, product manufacturing and onsite operations services
- Providing related technology services, such as Logging, drilling and completion fluids, directional drilling, mud logging, well testing, cementing, well completion, workover and oilfield production optimization etc

Marine Support and Transportation Services
- Owns more than 120 professional offshore working and support vessels, including anchor-handling tug/supply vessels (AHTS), platform supply vessels (PSV), multi-purpose vessels, barges, and shuttle-tankers
- Providing a comprehensive range of vessel services, such as anchor-handling, towing, supply, oil lifting, transportation, stand-by (guard-ship), firefighting, rescue, oil-spill assistance and workover support

Integrated Services
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Marine Seismic Service Capability
- 2D/3D conventional seismic survey
- High-density Seismic Survey
- 4D seismic survey
- OBC/4C seismic survey
- broadband seismic survey
- under shooting / long offset shooting
- over/under streamer and source acquisition
- wide-azimuth seismic data survey
- multiple-azimuth seismic data survey

Marine Seismic Acquisition
As a full member of IAGC, COSL has proven itself to be a leading seismic service provider in offshore China with specialized equipment operated by competent crews since the 1960s, and is also widely acclaimed by its clients in the Southeast Asia, Europe, the North America, Africa, the Middle East and other locations around the world. COSL currently operates Five 3D vessels, one 2D vessel, one dedicated source vessel, one Ocean Bottom Cable (OBC) teams, which can provide annual performance capacities of 45 000 km² 3D, 20 000 km 2D, and 1000 km² for OBC. Since its delivery in October 2014, 12-streamer seismic vessel HYSY 721 has become the most advanced seismic vessel in Asia. The newly-built seismic vessel HYSY760 delivered at the end of 2015, which is capable of 2D operation with the streamers towing maximum of 15 000 m and high pressure of 3000 psi and also for 3D operation with 4*8000 meters.

Name: HAIYANGSHIYOU 720
Built: 2011 P.R. China
Seismic Capability: Max. 12×8000m
Multiple Sources: Gun
Recording System: SEAL 428 System
Navigation System: ORCA
Onboard Seismic Processing: Echos

Operating with advanced equipment, hardware, and software by experienced teams, COSL can process the seismic data of approximately 40 000 km² 3D and 100 000 km 2D on a year and its interpretation capacity of approximately 2500 km² 3D on a year.

Seismic Data Processing Service Capability
- survey evaluation design: based on geological requirements, acquisition parameters and acquisition operational design
- offshore seismic data processing: seismic data processing and quality control
- seismic data in-house processing: shallow water multiple elimination, deep water multiple elimination, acquisition footprint elimination, Q-guided wavelet domain de-absorption, multi-survey merging processing, OBC processing technique, high-density data processing, wide azimuth/multiple azimuth processing, broadband data processing, and PSDM processing techniques
- seismic data interpretation: 2D seismic data integrated interpretation, 3D seismic data interpretation, post-stack seismic attribute analysis, AVO attribute analysis, post-stack inversion and reservoir analysis, pre-stack inversion and fluid detection, integrated processing and interpretation techniques, integrated geological research
COSL operates a fleet with 5 specialised survey and geotechnical drilling vessels, which is all fitted with specialized survey equipment and cutting-edge geotechnical surveying facilities, four of them are equipped with DP II system. This gives COSL the ability to provide integrated specialized services including project design, data acquisition, processing, interpretation, engineering analysis, and engineering reports and all of them is for working water depth to 3,000 m.

**Geo-technical Service Capability**
- offshore geophysical site survey: bathymetry, topographic, sub-bottom profiling, digital seismic profiling, and magnetic surveying
- offshore geotechnical investigation: drilling and sampling, gravity coring, in-situ testing (cone penetration testing, vane shear, T-bar, shear wave velocity testing, etc.), laboratory soil testing; geotechnical engineering analysis and assessment (for fixed platform, mobile drilling platform, submarine pipeline, subsea structure, etc.)
- marine environmental investigation: tidal current and tidal level observation and analysis; water temperature and mud temperature measurement and analysis; investigation and evaluation of corrosion factors in seawater and sediment
- deepwater Engineering Survey – the survey of Deep towed system, ROV, AUV, Deepwater Seabed CPT, Deepwater Borehole Sampling, JPC, and related assessment.
- offshore engineering support: vessel support services (IMR projects, ROV operation, and Saturation diving)
- consulting: engineering survey planning and design, engineering computing, feasibility studies for offshore construction, other offshore/onshore engineering survey technical services

**Subsea Engineering**
- Rental service: offshore vessels, special equipment, and technical personnel;
- Inspection, maintenance and evaluation state for the offshore platforms, vessels, pipeline, manifold and structures and facilities of onshore terminal;
- Service for Subsea Umbilical, Riser and Flowline:
  - Route survey
  - Flexible laying
  - Trenching and backfill
  - Free Span treatment
  - Pipeline inspection
- Service for Mooring System:
  - Anchor deployment
  - Mooring chain/wire laying and tensioning
  - Hooking-up
  - Inspection and repair
- Service for Subsea Production System:
  - Subsea Xmas Tree installation
  - PLEM/PLET installation
  - Jumper installation
  - Hydro/elec. Flying lead installation
  - Intervention

**Geotechnical Surveying**

<table>
<thead>
<tr>
<th>Name</th>
<th>HAIYANGSHIYOU 707</th>
</tr>
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<tbody>
<tr>
<td>Built</td>
<td>2015 P.R. China</td>
</tr>
<tr>
<td>Draft</td>
<td>7.6m</td>
</tr>
<tr>
<td>Cruising</td>
<td>14Knotes</td>
</tr>
<tr>
<td>Drilling Equip</td>
<td>500m</td>
</tr>
<tr>
<td>Anchoring Opn</td>
<td>80m</td>
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<tr>
<td>DP System</td>
<td>DP-Ⅱ</td>
</tr>
<tr>
<td>A Crane</td>
<td>30T</td>
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**Rental service:** offshore vessels, special equipment, and technical personnel; inspection, maintenance and evaluation state for the offshore platforms, vessels, pipeline, manifold and structures and facilities of onshore terminal.
Drilling Rigs

COSL conforms to all international drilling industry standards and is duly certified by the pertinent global shipping societies. With the largest drilling fleet in Asia, and the third-largest drilling fleet worldwide, COSL operates and manages thirty-four jack-up rigs, eleven semi-submersible rigs and five modular rigs, all of which are equipped with conventional and the latest cyber drilling systems, reliable power generators, mud circulation systems, and full range of processing, cleaning, and environmental-protection equipment. One 5000 ft semi-submersible will join COSL’s ever-expanding fleet in 2017.

Operating Water Depth

COSL has more than 50 years of experience in offshore drilling including HTHP well operations, and can operate in water depths of 15 to 10,000 ft, and drilling depths to 35,000 ft in a broad variety of environmental conditions. COSL’s successful operations in the Southeast Asia, Gulf of Mexico, the Middle East, and Europe, have earned high praise from its many satisfied customers, which, in turn, COSL has fostered continued growth and outstanding good record worldwide.

COSL is a full member of the International Association of Drilling Contractors (IADC) and owing its excellent management and operations systems has been awarded the IADC medal for a perfect safety record.

COSL’s Integrated Management System, covering QHSE, equipment, marketing and HR management and other relevant management, is fully certified by DNV and continually meet or exceed international standards and relevant laws concerning safety, occupational health, and environment-protection in any operational area anywhere in the world.
Drilling

◎ Modular Drilling Rigs
COSL provides the integrated services for modular drilling rigs, including designing, constructing, installing, commissioning, maintaining and operating. COSL possesses and operates five modular rigs, all of which are equipped with international mainstream and high-performance drilling devices, with maximum drilling depth of 9000 m. All five modular rigs are currently operating for PEMEX in the Gulf of Mexico.

◎ Land Rigs
COSL manages and operates three land rigs and two workover rigs, designed to operate at drilling depth ranging from 3000 to 7000 m. Key equipment conforms to API standards with all automation meeting the international advanced level. Those rigs are currently providing the turnkey services in Missan, Iraq.

◎ Casing and Tubing Running Service
COSL is fully capable of providing tailor-made customer service. Supported by its own offshore conductor-driving penetration analysis software, casing cutting and beveling equipment, and adapted 26” casing power tongs, COSL casing and tubing-running service is backed by DNV-certified management systems, five domestically-sited operation bases, and more than 400 professional personnel. COSL has been widely acclaimed by Petro China, Conoco-Phillips, ENI, Devon Energy, and ROC Oil for providing excellent quality, high efficiency, and superior service.

Name: HAIYANGSHIYOU 944
Design: Gusto MSC B.V
Build: 2016 P.R. China
Water Depth: 50/400 ft
Drilling Depth: 30000 ft
Classification: ABS/CCS
Accommodation: 150
COSL can provide a wide variety of engineering designs and onsite operation with mud motor and RSS, and other down-hole tools, in addition to offering directional and trajectory measuring services via electronic single/multi-shot and gyroscope. COSL ever-expanding service areas are offshore China and the Southeast Asia. CNOOC, Sinopci, China United Coalted Methane Co. Ltd., PNOC, Conoco-Phillips and Anadarko are but a few of COSL professionally-satisfied customers. COSL proprietary RSS, Welleader®, has proven excellent wellbore trajectory-control performance, helping customers effectively improve overall drilling efficiency while significantly reducing drilling costs.

**Directional Drilling Service Capability**
- Condensed cluster wells
- Horizontal and ERD
- U shaped connected wells
- Relief well
- Window cutting / sidetracking
- SAGD

**Logging**
COSL has the capability to offer complete-package services to its customers, including wireline logging, MWD/LWD, cased-hole service, VSP, data processing and interpretation. The operation areas are offshore China, the Southeast Asia, the Middle East and North America.

**Measurement While Drilling (MWD) and Logging While Drilling (LWD)**
Thoroughly experienced engineering staff employs advanced MWD/LWD equipment, among which is COSL proprietary LWD tool Drilog®, COSL can offer directional logging data, with a variety of parameters, acquired during the drilling process, that can meet customer-demands for formation evaluation, well-placement, downhole drilling-tool state monitoring, and many other related requirements.

- the real-time engineering parameters, including inclination, azimuth, tool-face, drilling-tool vibration monitoring, drilling pressure (annulus pressure, pressure-in-drill-string monitoring), caliper surveying, and related requirements.
- the high-quality formation evaluation parameter data are saved in the downhole tools, and can be downloaded for post-operation analysis: natural gamma ray, resistivity, litho-density, neutron porosity, Acoustic Logging While Drilling (ALWD); formation testing

**Drilog® + Welleader®**

<table>
<thead>
<tr>
<th>MWD (Pulsar + Directional Probe)</th>
<th>DSM Sub (Dia./Pres./Vibr.)</th>
<th>ACPRT Sub (Gamma/Resistivity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine Generator (CDL decoding)</td>
<td>Wired Flex Sub.</td>
<td>SFU Sub (Steer-force Controller)</td>
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</table>

Welleader®, COSL self-developed Rotary Steerable Drilling System, using the “Push-the-Bit” mechanism to achieve 6'/30m build rate, combines with COSL self-developed Logging while Drilling system Drilog® to carry out well trajectory measurement/GR and Resistivity logging with the mud pulse telemetry of 3bps maximum speed, while the Neutron Porosity/ Lithology Density/ Monopole Array Sonic/ Formation Pressure Testing services are under field test.
Wireline Logging Service Capability

- Production logging: Production profile logging, injection profile logging, oxygen activated logging, residual oil saturation monitor, horizontal well dynamic monitor and relevant data processing and interpretation
- Perforation optimization design, downhole string vibration load prediction, wireline perforation, composite perforation, oriented perforation, negative pressure perforation, multi-stage perforation
- Cement bond logging, casing/tubing inspection, leak detection
- Free Point Indicator (FPI), back-off, jet cutting, chemical cutting, junk basket, down hole tractor

COSL Data Processing and Interpretation Center (DPIC) specializes in comprehensive geological applications analysis and borehole data processing and interpretation. From a variety of available logging data processing and interpreting services, data analysis, geological study, processing and interpreting software products, reservoir productivity forecasting, comprehensive reservoir evaluating and cement-bond evaluation are frequent COSL customer choices.

Data Processing and Interpreting (DPI) Services Capability

- On-site conventional logging data quick processing & interpretation
- Imaging logging and comprehensive data application
- Nuclear magnetic resonance logging data processing and interpretation
- Cross-dipole acoustic array logging
- Production logging data processing and interpretation
- Reservoir performance monitoring data analysis
- Tubing and casing inspection
- Vertical seismic profile (VSP) data processing and interpretation
- Unconventional light gas, CBM and shale-gas logging data processing and interpretation
- Reservoir fracturing effect and micro-seismic monitoring integrated service

Open-hole Wireline Logging

COSL technically-advanced enhanced logging imaging system, ELIS™, and an inventory of customary equipment, are supported by COSL well-experienced professional logging teams, who can provide COSL customers with excellent choices of wireline logging service solutions.

Wireline Logging Service Capability

- Natural gamma ray and spectrometry logging
- Spontaneous potential logging
- Resistivity logging
- Litho-density logging
- Neutron logging
- Acoustic logging and cross-dipole acoustic array logging
- Formation pressure testing and fluid sampling
- Rotary sidewall coring
- Acoustic resistivity imaging logging
- Nuclear magnetic resonance logging
- Other alternative technologies

COSL is equipped with advanced VSP acquisition equipment which comprises multilevel digital well seismometer and ground operation systems. The VSP Center is responsible for data acquisition and processing.

VSP Service Capability

- Check-shot survey
- Zero-offset VSP
- Offset VSP
- Walkaway VSP
- 3D VSP
- Downhole micro seismic fracture monitoring for CBM and similar well applications

Cased-hole Services

COSL help customers monitor the dynamic characteristics of the reservoir and casing/tubing integrity by production logging, perforation, well integrity and other downhole engineering services, which also help to optimize the oilfield development and production.

- Production logging: Production profile logging, injection profile logging, oxygen activated logging, residual oil saturation monitor, horizontal well dynamic monitor and relevant data processing and interpretation
- Perforation: Perforation optimization design, downhole string vibration load prediction, wireline perforation, composite perforation, oriented perforation, negative pressure perforation, multi-stage perforation
- Well integrity: Cement bond logging, casing/tubing inspection, leak detection
- Engineering services: Free Point Indicator (FPI), back-off, jet cutting, chemical cutting, junk basket, down hole tractor

Vertical Seismic Profile (VSP)

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VSP Service Capability

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- Zero-offset VSP
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- Walkaway VSP
- 3D VSP
- Downhole micro seismic fracture monitoring for CBM and similar well applications
**Advanced Technology**
- HTHP drilling/completion fluid technology
- Deep water drilling/completion fluid technology
- Formation protection drilling/completion fluid technology
- Eco-friendly drilling fluid technology
- Losses control and wellbore stabilization drilling/completion fluid

**COSL** has comprehensively covered all aspects of well cementing. Cement slurry systems and schemes are fully optimized by the latest engineering designs and simulation software to efficiently custom-fit downhole conditions. In addition to a series of cementing equipment, tools, and accessories, COSL possesses wide variety of advanced cementing technologies, cement slurry systems, and cementing additives of self-owned brand. COSL has great flexibility in meeting the heavy demands of both conventional operations and those with unique and complex geological conditions.

COSL has been designated as a "Total S.A. International Pre-qualified Contractor" since 2013 and included in the key contractors program of Shell IG Wells symbolized as the signing of "Integrated Gas Joint Safety Improvement Plan" and "Integrated Gas Joint Business Improvement Plan" in 2015.

**Service Capability**
- Program design and on-site engineering
- Drilling/completion fluids on-site service
- Experimental and systems development support
- Chemical additives supply

**Advanced Cementing Technology**
- HTHP well cementing
- Deepwater cementing
- Lost-circulation prevention cementing
- Extended-reach horizontal well cementing
- Thermal-recovery well cementing
- CO₂ / H₂S resistant cementing
- Gas migration control cementing
- High pressure salt and gypsum formation cementing
- Self-healing cementing
Complemented by offshore drilling and workover teams totaling more than 3500 personnel, COSL annually manages over eighty drilling and workover rigs with more than 1200 wells, in an operating area now extending from its traditional Southeast Asian and China Seas home area to the Middle East and points around the world.

With an integrated completion service chain comprised of completion design, manufacturing of completion, sand control strings, as well as on-site operations, COSL’s reliable completion solutions approach to risk avoidance maximize production, reduce intervention cost, and extend the life of your well regardless of your well type or operating environment. Services are now available in China, the Southeast Asia, and the Middle East.

COSL possesses various drilling fluids and cementing slurry systems and technologies in meeting wide variety of bottom hole temperature, pressure and downhole conditions. COSL could provide integrated drilling fluids and cementing solutions for clients. COSL has provided clients drilling fluids and cementing services for more than 60 HTHP wells in last 20 years.

- **HTHP Challenge**
  - Ultra-HT Cement Slurry: 195.5°F (90.8°C)
  - HTD Oil OBm: 185°F (85°C)
  - HWD Oil OBm: 183°F (84°C)
  - HIW Oil OBm: 182°F (83°C)
  - HIW Slurry: 171°F (77°C)

- **Deep Water Challenge**
  - > 500m, Deepwater
  - Self-dominated Intellectual Property Right for material and equipment
  - > 1,500m, Ultra-deepwater
  - Accomplished 26 wells of cementing and mud operation with maximum water depth of 1,714m
  - 3,000m, Extreme Deepwater
  - Competent for (3,000m deepwater wells operation

- **Completion**
  - completion designing and optimization
  - completion and sand control tooling
  - completion and sand control integrated service
  - completion engineering and supervision services
  - completion equipment providing and manpower services

- **Integrated Industrial Chain**
  - COSL could provide integrated completion and sand control tooling
  - COSL has provided clients drilling fluids and cementing services for more than 60 HTHP wells in last 20 years.

- **Workover**
  - drilling and workover
  - routine workover and overhaul
  - management and drilling/workover equipment refl and upgrading
  - modular drilling/workover rigs manufacture, relocation and offshore installation
  - offshore movable workover rigs, related facilities and services

- **Environmental Protection**

- **Service Capability**

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Delivered at the end of 2014, the Multi-stimulation Vessel “HYSY 640” is the epitomized product of COSL integrated experiences in production-optimization, marine operations, and mechanical engineering. This vessel is equipped with the latest and most cost-effective technologies for fracturing, acidizing, and sand control. Being a ship, Multi-stimulation Vessel “HYSY 640” has an unrestricted operations area, taking its professional and highly-skilled personnel to any operator well-site world-wide.

- Stability in rough conditions
- Rapid deployment and rig-up
- Remote acquisition and control
- Large-capacity treatment capability
- High-rate-high-pressure pumping
- DP-II dynamically positioning system

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COSL liftboats offer customer comprehensive support for drilling, workover, stimulation, and completion operations by providing good accommodations space, good cargo-handling capacity, and operation flexibility. COSL self-propelled liftboats are outfitted with advanced propelling and navigation systems and high-tonnage hoisting equipment positioned to take advantage of their large open-deck spaces. COSL accommodation rigs, COSL RIGMAR (jack-up) and COSL RIVAL (semi) are currently stationed in the North Sea.

Main Specifications of HYSY 901/902
- 800 m² open-deck space
- Jacking speed 0.9 m/minute: good performance in jacking up and down
- Three main thrusters and one bow thruster
- 180T SWL main crane, one 35T SWL auxiliary crane
- Accommodate 150 people
- Configured for good customer logistics support
COSL operates and manages the largest, the most powerful and the most diverse working and support oil-industry fleet in offshore China. COSL owns and operates more than 120 vessels, including anchor-handling tug/supply vessels (AHTS), platform supply vessels (PSV), multi-purpose vessels, barges and shuttle-tankers. As a professional provider of offshore support vessels, COSL provides a comprehensive range of vessel services that can satisfy even the most detailed customer requirements: anchor-handling, towing, oil lifting, transportation, stand-by (guard-ship), ice-breaking, firefighting, rescue, oil-spill assistance and workover support.

**Deep Water Fleet**

COSL’s Deep water fleet comprises of 11 AHTS vessels and 10 PSV vessels, fitted with FIFI-1 and DP-2 system. These technologically advanced vessels have advantages of large cargo capacity and high maneuverability that enable them to handle the most complicated operation in harsh environment.

HYSY 691 has been delivered in 2016, designed by Rolls-Royce, fitted with FIFI-1 and DP-2 system. Its diesel-electric hybrid engines produce propulsion power of 31,972 hp, a bollard-pull of 368 TBP and a maximum speed of 18 knots. As a latest-generation and the most versatile vessel in COSL’s fleet, HYSY691 can offer various deepwater services such as anchor-handling, towing, supply, stand-by, firefighting, oil recovery, ROV operation assistance and others.
With unremitting effort in scientific research and vigorous development of independent R&D and manufacturing capacities, COSL today possesses a series of products with proprietary intellectual property rights, including the ELIS™ logging system, various oilfield chemical materials, completion tools, and sand control product lines. These products have been successfully proven-in-the-field, and are available to site operators worldwide.

COSL Well-Tech Manufacturing Center is specialized in producing dedicated equipment and tools required for oil exploration and production: logging, directional drilling, logging skids, hydraulic power units and perforating equipment. The annual production capacity can accommodate twenty sets of basic ELIS™ logging equipment, five sets of LWD Drilog®, twenty skid-mounted equipment and more than 70,000 m of perforating gun. COSL logging tools and perforating guns have passed API Specification Q1 and ISO 9001:2008 standards. COSL skid-mounted equipment units meet China Classification Society (CCS) explosion-proof certification standards. In addition to China market, the tools and equipment were sold and used in Singapore, India, Indonesia, the Middle East and North America.

COSL technically-advanced enhanced logging imaging system, ELIS™, was developed by COSL with full independent intellectual property rights and proved to be reliable with excellent performance, winning China National Scientific and Technological Progress Award. Performance of the high-end ELIS™ tool family matches or exceeds the performance levels of internationally-branded similar tools. The ELIS™ family of tools is comprised of Enhanced Formation Dynamic Tester (EFDT™), Enhanced Rotary Sidewall Coring Tool (ERSC), Enhanced Resistivity Micro-Imager (ERM), ELIS™ Magnetic Resonance Tool (EMRT) and Multifunction Ultrasonic Imaging Logging Tool (MUIL).

Logging and Perforating Equipment

COSL Perforating guns
- Perforating guns with different shot densities
- Auxiliary perforating tools

Skid-mounted units
- SAS-IT well testing data acquisition system
- WITS protocol data processing conformation
- Remote decision-making and remote control
- Conventional well testing, EDST, HPHT well testing
- Drilog®- Logging While Drilling (LWD)
- Wellleader®- Rotary Steerable System
Chemicals Product-line

- Drilling / Completion Fluids Additives: normal lubricant, balling control lubricant, environment protective lubricant, high-performance lubricant, tackifier, petroleum reservoir-protection agent, instant PAV, leak-stoppage additive, efficient plugging agent, environment protective plugging agent, low molecular coating agent, clay stabilizer, polyamine inhibitor, corrosion and bacteria inhibitor, oil-based drilling fluid primary emulsifier, oil-based drilling fluid wetting agent, oil-based drilling fluid secondary emulsifier, oil-based drilling fluid fluid-loss additive

- Cementing Additives: high-temperature fluid loss additive, medium and low-temperature fluid loss additive, dispersant, medium and low-temperature retarder, high-temperature retarder, defoamer, accelerator, gas stop agent, preservative, auto-repairing additive, plugging agent, water-based slurry flushing agent, oil-based slurry flushing agent, spacer-fluid additive

- Stimulation Additives: clean-up additive, polyhydrocarbon acid, mutual solvent, demulsifier, swelling-prevention agent, ferric iron stabilizer, medium and low-temperature corrosion inhibitor, high-temperature corrosion inhibitor, wettability alternating agent

COSL Chemicals (Tianjin) Ltd. manufactures more than forty Drilling Fluids additives, well completion additives, cementing additives and well stimulation products, many of which are patented by China State Intellectual Property Office. From COSL PF-LUBE drilling lubricant and COSL PC-80L fluid-loss additive, to COSL PC-451L high temperature retarder and COSL PA-EH2 demulsifier, COSL Chemicals product-line is specifically designed to increase oilfield exploitation efficiency.

COSL Chemicals adheres to the policy of keeping faith with its customers: focus on the customer’s requirements to efficiently provide the best before-the-sale, during-the-sale, after-the-sale service, always striving to create a solid business relationship in which both sides are winners. COSL Chemicals currently services the international market all the way from Myanmar, Indonesia, and the Philippines to India, the Middle East, Europe and beyond.

COSL provides customers with the design and manufacturing of well-completion tools, sand control tools/screens/strings, and related assemblies, totaled more than 300 products which are mainly applied in the offshore Y-String, gas lifting string and flowing well string. All COSL products meet API Spec Q1, API Spec 11D1, API Spec 5CT, API Spec14A, and ISO 9001 quality management system and quality certification specifications. COSL completion tool and sand control products are internationally widely used from China and South-east Asia, to the Middle East and the Americas.

Completion tools and Sand Control Tools & Equipment

- Completion Tools: subsurface safety valves, ESP packer, bridge plug, sliding sleeve, and related equipment and tools
- Sand Control Tools: Top packer, Isolation packer, extension sub, locator seal, isolation seal, mule shoe, and related equipment
- Sand Control Screens: wire-wrapped screens, CMS screens, CDWS, punched screens, and slotted screens, and screens meeting special requirements
In the journey of achieving GOAL ZERO, COSL is committed to:

1. Continuously implement and improve our QHSE and SMS systems.
2. Provide adequate QHSE and SMS trainings to raise QHSE and SMS awareness and maintain high level competences.
3. Ensure safe and healthy working environment and provide certified Personal Protective Equipment (PPE) to employees.
4. Empower our employee to stop any operation if he or she believes there is a dangerous situation.
5. Implement effective procedures and communicating mechanism for identification, assessment and mitigation of operational risks.
7. Continuously implement and practice emergency response plan to avoid accident escalations and minimize the losses.
8. Promote a culture to encourage incident reporting. Investigate and learn from it in order to prevent the recurrence.

Yanjiao, December 2015

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