Curriculum Baker Hughes Company



Baker Hughes Global

Baker Hughes Company is an energy technology company that provides solutions for energy and industrial customers around the world.

With operations in more than 120 countries and more than 67,000 employees, we design, manufacture and deliver leading technology solutions for our customers. Powered by the industry's only comprehensive technology portfolio and enabled by our people, we drive productivity and improve outcomes for ourselves and our customers.

From the first rotary auger to the world's most extensive portfolio of compressors and gas turbines, and from digital solutions that predict results to modular Deepwater technology, our inventions have revolutionized the industry for more than a century.

We are reducing the carbon footprint of our operations, applying proven low-carbon technology to help our customers meet their environmental goals, and innovating for the future of energy.

At Baker Hughes Company, we are taking energy forward, making it safer, cleaner and more efficient for people and the planet. Visit us at bakerhughes.com

Regions y Geomarkets.

Our regional teams and geo-markets manage teams that work to understand customer needs and coordinate the delivery of individual products or comprehensive service solutions that include Baker Hughes technologies appropriate for the project.

Baker Hughes Company's regions are: North America, Latin America, Europe / Africa / Caspian Russia, and the Middle East / Asia Pacific.

Segments

The global operations of Baker Hughes Company are supported by the business segments: Evaluation, Drilling, Completion, Production and Optimization, Pipeline, which cover product lines that develop, manufacture and support with industry leading technologies.

Evaluation

Baker Hughes Company's Formation Evaluation Group offers a full range of electrical wireline logging services for all environments, including advanced formation evaluation, production and reservoir engineering, petrophysical and geophysical data acquisition services. Wireline logging services also include drilling and completion technologies, pipeline recovery, and cased and discovered hole data processing and analysis.

Baker Hughes Company has one of the strongest and best-known reservoir technology and consulting teams in the petroleum industry. The company initially expanded its reservoir capabilities with the acquisition of the international consulting firm Gaffney, Cline & Associates (GCA) and the geomechanics and training software consultancy GeoMechanics International in 2008. In 2009, Baker Hughes Company further increased its capacity. with the acquisition of two subsurface and well consulting firms, Helix RDS and Epic Consulting.

The combination of these individually strong organizations is a world-class reservoir consulting service and positions Baker Hughes Company as a premier partner for oil companies throughout the asset lifecycle, from the earliest stages of product development. Project through enhanced Oil recovery.

Our services for this segment include: Electrical records, geophysical records, Geoscience and Petroleum Engineering services, Geomechanics, Consulting services and Integrated Well Services (IWS).

Drilling

We offer our directional drilling expertise through a global service organization. Real-time drilling services help oil companies drill more efficiently and place wells in pay zones within the reservoir. Important technologies include automated rotation directional drilling systems.

Our Reservoir Navigation Services optimize well placement through the combination of reservoir models, the industry's most comprehensive real-time drilling tool, and 3D / 4D visualization software with expert interpretation. The service is designed to optimize production and increase asset recovery by reducing uncertainty during drilling and by delivering maximum reservoir contact in the focal zone.

Baker Hughes Company is the world leader in developing tricone and PDC bits, backing shoe, and casing drilling technology. Our design and application engineers work with customers to provide the best bit and continually improve drilling performance.

Drilling fluid systems and services from Baker Hughes Company help optimize drilling processes to maximize hydrocarbon production and manage drilling waste. Leading technologies include environmentally compatible synthetic-base and water-base mud systems and remediation fluids that can restore productivity to damaged wells.

Our services for this segment include: PDC bits, tricone bits, hybrid bits, directional drilling services, oriented rotary services, downhole drilling service, MWD / LWD / PWD logging, coring service, expanders , liner drilling, drilling fluids, handling and final disposal of drilling cuttings.

Completion

Baker Hughes Company provides intelligent production systems and intervention solutions that help manage costs, optimize performance, reduce risk, and maximize recovery. Well intervention solutions address topics ranging from temporary well abandonment and davits, well cleanings, isolation, reclamation, and stimulation operations.

We offer the most complete portfolio of products and services in the industry which includes: Hanger liner systems, cementations, multilateral systems, well stimulation, hydraulic fracturing, coiled tubing, completion fluids, sand control, water control, smart systems production, packers, production firing, special operations with explosives and radioactive, subsurface security systems, fishing and milling services, opening of

windows, cleaning of well, through-tubing interventions, inflatable systems, pressure and temperature sensors, headers wells, valve shafts.

Production and Optimization

Production and Optimization services include permanent monitoring, chemical automation and intelligent production systems. Our artificial lift product line provides electric submersible pumping systems (ESP), horizontal electrocentrifugal pumping, variable frequency drives and pump systems of progressive cavity (PCP), as well as specific engineering, project management and well monitoring services. Our ESP Systems can operate in harsh downhole environments including high oil-gas production rates, heavy oil, high temperatures, and abrasive laden fluids. The new systems also address the needs of coal-fired methane, gas-well irrigation, steam-assisted gravity drainage (SAGD) and subsea production projects.

Baker Hughes Company offers chemical technology solutions for hydrocarbon production, transportation and processing, also offers services for pipeline integrity, as well as technology for oil / water separation and solutions for the control of corrosion, deposition, bacteria and hydrogen sulfide in production from wells and production facilities. To serve refinery and petrochemical customers, we provide chemicals and technical assistance to improve plant processes, improve productivity, manage water treatment, and solve environmental problems.

Our services for this segment include: Electrocentrifugal pumping system (BEC), variable frequency drives (low voltage), horizontal electrocentrifugal pumping, mechanical pumping system, chemical products, production records (case-hole).

Pipeline

Baker Hughes Company helps you maximize efficiency, productivity, and safety throughout your operation with our advanced turbocharging and pumping systems. Compact and modular designs increase installation speed and long-term reliability, reduce maintenance requirements, and meet the most stringent emission standards.

We have a wide range of capabilities for maintenance, inspection and pipeline integrity solutions, for which we use the following technology: Compressor / Booster / Membrane Units, MFL Tools and Ultrasound Tools.
Our services for this segment include: Gas Compressors, Pipeline Pre-commissioning, Pipeline Inspection, Marine Pipeline Commissioning (SPCS).

Development in Mexico

The company began its activities in Mexico in 1960, under the name of BROWN OIL TOOLS DE AMERICA LATINA. The main activity was the manufacture of Brown brand products, such as: Production Packers and Liner Hangers. The company had a workforce of 25 workers and 10 employees.
In 1963 this company merged with BAKER OIL TOOLS adopting the name since then as HERRAMIENTAS INTERAMERICANAS, S.A. DE C.V. (HISA). In this way, the company increases its activity by manufacturing permanent and semi-permanent packers, cement retainers and flotation equipment for the Mexican and foreign Oil Industry, the staff amounted to 40 workers and 15 administrative employees.

In 1966 HERRAMIENTAS INTERAMERICANAS, S.A. DE C.V. stops making Brown products.
In 1967 the manufacture of Gas Lift products (valves) began, under the McMurry brand, manufacturing that lasted approximately 3 years.

In 1970, the company began to manufacture equipment similar to that of McMurry, but with the MERLA brand, at this same time the manufacture of GALIGER brand casing pipe hubs began, at this time the staff was of 100 workers and 30 administrative employees.
In order to increase its operations, in 1985 the manufacture of BAKER brand centering devices began.
In 1987 HISA acquired the company Precisión Mecánica, S.A. de C.V. (PREMESA), which had been covering the National market for short pipe hangers for 20 years with Brown products, which continues with the manufacture of Brown Brand products. By then, the workforce was 110 workers and 52 employees, as well as 5 Sales and Service Districts located in: Cd. Del Carmen, Campeche; Villahermosa, Tabasco, Poza Rica, Veracruz, Tampico, Tamaulipas and Reynosa, Tamaulipas.

In 1991, the MEXICO BAKER CAC Division joined HISA, which had been working in Mexico since 1979, continuing to serve the needs of our customers. This Division is basically dedicated to manufacturing well safety and control panels, automation systems, safety and control of the different processes and equipment in the oil industry, on offshore platforms, integrating with the SCADA system and on land facilities of Pemex.

In May 1993, due to the new worldwide organizational structure, Productos de Diamante Christensen, S.A. was acquired. de CV, which has been working in Mexico since 1970, in the area of Augers, Directional Drilling, Sampling, Drilling Measurement, etc., with the Eastman-Wipstock, Eastman-Christensen brands and more recently such as EastmanTeleco, corresponding to the BAKER HUGHES INTEQ Division.
In the same year, 1993, we started operations with the CHRISTENSEN Diamond bits, under the name HISA, as well as the HUGHES brand tricone bits, thus creating the HUGHES CHRISTENSEN division. Hughes brand tricone bits were used in the international market at the beginning of the century (1909) and here in Mexico since 1981.

Before 1981 under the name Hughes Tool Company, both brands with recognized prestige as leaders in technology to world level. There is a plant in Houston (Woodlands), Texas for the manufacture of tricone and diamond bits.

In 1996 the company adopts the name of BAKER HUGHES DE MEXICO, S. DE R. L. DE C. V. merging all its lines to form a single legal entity, with the operating divisions:
Electrical Records, Shots and Special Operations (Wireline Systems), Directional Drilling (Drilling Systems), Drill Bit Systems, Drilling Fluids (Drilling Fluids), Chemicals (Upstream Chemicals), Completions (Completions Systems), Artificial Lifting (Artificial Lift), Production Recovery (ProductionQuest).
In 1998, it merged with the Western Atlas company, thus integrating the registry services.
In 1998, the manufacture of Baker-Hughes products is regulated by the quality standards API Q-1 and ISO 9001/2015, in accordance with the World Standard, and joined the Western Atlas company, thus integrating the services of records.

Currently Baker Hughes Company has 3 legal entities in Mexico that group the product lines as shown below:

Baker Hughes Operations Mexico, S. de R.L. de C.V.

Tax Number: BHO930713T99

Products Line:

- Wireline Services
- Drilling and Completions Fluids
- Drilling Services

Baker Hughes de Mexico, S. de R.L. de C.V

Tax Number: BHM950721RC4

Product Line:

- Completions and Well Intervention
- Artificial Lift Systems
- Drill Bits
- Reservoir Technical Services
- Oilfield & Industrial Chemicals
- Integrated Well Services

BJ Services Company Mexicana, S.A. de C.V. (BJS)

Tax Number: BSM9202142P2

Product Line:

- Pressure Pumping

Tax Residence

Avenida Antonio Dovali Jaime, entre las calles Javier Barros Sierra y Avenida Santa Fe, Número 70, Torre B, Piso 5, Colonia Santa Fe, Delegación Álvaro Obregón, Ciudad de México, C.P. 01210.

Phone Numbers

+52 (55) 1454 3337

Web Site

bakerhughes.com

Legal Representative

- Gaspar Arteaga Ruz
- Jesus Ramon Rosas

Baker Hughes Company activities

The manufacture, assembly, repair, acquisition, sales, import and export of tools, equipment, parts, components, chemical products and any other article used in the oil, mining, processing or construction industries, as well as provide all kinds of services to oil wells, and to carry out special operations with cables. In the same way, carry out studies and explorations of soils and subsoils, with geophysical, geological, geographical, geochemical methods and carry out geophysical, geological, geographical and geochemical studies and research projects.

Baker Hughes Company Oilfield

- Evaluation
- Pre-Commissioning & Maintenance
- Drilling
- Completions
- Production
- Processing
- Subsea
- Pipeline Inspection
- Intervention
- Decommissioning

Baker Hughes Company Current Certifications

- ✓ Quality management system: ISO 9001: 2015.
- ✓ Regarding the environment: ISO 14001: 2015.
- ✓ Regarding Health and Safety at Work: OHSAS 18001: 2007

Baker Hughes Company Health, Safety and Environment

Through our HSE culture we protect our people, our customers, the communities in which we operate, and the environment. Through our commitment to a culture of health, we strive to create an environment that promotes the importance of wellness and encourages all employees to be leaders in their own health while at work, in their homes and in the community.

Baker Hughes Company Quality

Everything we create is aimed at meeting the needs and expectations of our customers and complies with the legal, regulatory, internal and safety and quality requirements of the industry, however, we go beyond this, continually reviewing and improving our System of Quality management to improve our performance, increase customer satisfaction and achieve our organizational and quality objectives.

Baker Hughes Company Compliance

At Baker Hughes Company, doing the right thing always comes first. We make sure that everything we do is safe, honest and takes care of our people, our customers, the communities in which we operate and the environment.

Baker Hughes Company Customers:

PEMEX EXPLORACIÓN Y PRODUCCIÓN	MURPHY
DOWELL SCHLUMBERGER	MARINSA
HALLIBURTON	PERFOLAT
IBEROAMERICANA DE HIDROCARBUROS	PETRONAS
WEATHERFORD	CAPRICORN ENERGY
QUÍMICA APOLLO	REPSOL
SISTEMAS INTEGRALES DE COMPRENSIÓN	HOKCHI / PAE
RUA SERVICIOS PETROLEROS	PETROLERA CARDENAS MORA
FIELDWOOD ENERGY E&P	DEA WINTERSHALL
TALOS ENERGY OFFSHORE	PETROFAC
ENI	CNOOC
BHP	CHEVRON
BW OFFSHORE	PETROFAC
PERENCO	LUKOIL
ALLSEAS MARINE CONTRACTORS	OPEX
MEXOIL	PERFORACIONES AKAL

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