

Birth Date: (Caracas, Dec. 31st 1969)

Home address: Tenerife, Spain

Work Experience: 20 years

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Nationality: Venezuelan / Residency: Spain

Lenin Díaz

Oil and Gas Well Cementing Expert

Zonal Isolation Engineering

Cementing (primary and remedial)

Water control gels

Drilling Fluids

Fluids & Cementing Operational Manager and Technical expert with 20 years of industry experience in Drilling, Workover and rigless fluids and cementing operations. I have held several positions in cementing engineering, project and operations management in Venezuela, Kuwait, Mexico, Central America and Iraq, both locally and at regional/country level. Engineering and operational management experience includes oil, gas (conventional, HPHT, LPHT, onshore and offshore) and geothermal wells. I have great knowledge in developing new business and introducing technical solutions in difficult markets in Latin America and the Middle East. I have several SPE paper and numerous internal technical documents. I have full knowledge in all cementing and water control specialized software. I have developed cementing standards and practices for Schlumberger and BP including cementing standard, zonal isolation standard and drilling fluids standard.

More recently I am the Owner of various websites, including <http://better-cementing-for-all.org/> with over 800 subscribers to provide technical support in cementing.

PERSONAL SKILLS AND STRENGTHS

* Cementing Specialist, project and operations manager
* Knowledge in Drilling Fluids
* Experience in drilling, workover and rigless operations, including:
  + Offshore and onshore operations
  + Geothermal wells
  + Conventional, HPHT and LPHT oil and gas wells. (Wells up to 7500m and 160 oC)
  + Well abandonment
  + Zonal Isolation challenges
  + CT operations
* Development and implementation on new technology and specialized practices
* Drilling Fluids and Cementing tender and bid management
* Contractor management
* Technical papers and industry events
* Technical analysis and selecting optimum fluids solutions
* Integration of new fluids technologies in drilling and Work over jobs
* Writing technical standards
* Valid IWCF (Valid until 30.03.2021) and BOSIET certification (Valid until 22.03.2020)
* Online business entrepreneur (webpage design, online marketing)

Professional experience

March 2016 to Date <http://better-cementing-for-all.org/>

Most Recent Position

Cementing Technical consultant / Website owner

1. Online business entrepreneur

Website owner

Tenerife, Spain

+34 657 07 01 78

1. Providing Technical support to individuals and companies in the Middle East, United Kingdom, Venezuela, Mexico, Australia, Russia, Nigeria, Turkmenistan and United States.
2. Most recent projects:

* Nigeria – Amni Petroleum. Improve cementing design for a challenging 9 5/8” cementing Operation.
* Turkmenistan – Dragon Oil. Post-job analysis and investigation of two cementing incidents leading to high annular pressure.

July 2015 to February 2016 BP Iraq

**Work address:**

Rumaila Operating Organization

Iraq, Basra

Cell Ph. + 964 7704931778

On Rotation 28x28 since 03/12/12

Wells Fluids Specialist (Basra, Iraq)

1. Wells Fluids Technical Specialist for BP/CNPC/SOC Joint Venture

* Cementing, Drilling and Well Intervention fluids specialist
* 5 Drilling Rigs, 13 Workover Rigs

March, 2012 to July 2015 BP Iraq

Cementing Specialist (Basra, Iraq)

1. Cementing Technical Leader for BP/CNPC/SOC Joint Venture

* Subject matter expert for all cementing related work in drilling, Workover and rigless operations
* 13 drilling rig and 11 Workover

Dec, 2005 to March, 2012 Well Services, Schlumberger

Technical Manager Cementing (Mexico South Region and Central America)

**Work address:**

Mexico South

Based in Villahermosa, Tabasco

1. Sept-07 to March-12 / Technical Manager Cementing

* Technical and Engineering Manager for cementing work in Mexico South and Central America
* Direct Reports: 8 in-house Cementing Technical Engineers, 2 Cementing Project Coordinator and Cementing Laboratory
* Operations Profile: 15 Rig constructing HPHT and LPHT wells (up to 7,500 mts) in fractured carbonates, 4 rigs constructing wells in sandstone, workover remedial cementing well abandonment and water control.
* Responsible for defining and standardizing cementing practices for all primary cementing jobs (lightweight and heavyweight cement slurries, Foamed Cementing and New Technologies) and Remedial Cementing.

1. Dec - 05 to Sept - 2007 / Technical Engineer Cementing and Project Coordinator

* ConocoPhillips development campaign in East Venezuela – 1 rig in batch drilling operations offshore
* Responsible for project outcome, including HSE and Financial Objectives
* Operations Management and Technical Engineering Support

Nov, 2004 to Dec, 2005 National Petroleum Services Company, Kuwait

**Work address:**

National Petroleum Services Company (K.S.C)

P.O. Box 9801, Ahmadi 61008

KUWAIT

Tel : 965-326-2222

Fax : 965-326-1122

Mobile : 965-6399-037

Quality & HSE Manager (Oil Field CT and Pumping Services)

1. Developing, managing and maintaining an effective Quality & HSE program as per Governmental and client regulations and international recognizes standards
2. Direct Report to The Company Managing Director
3. Contracts in Cementing, CT and Stimulation with KOC and Joint Operations (Chevron – KOC)

April, 1996 to Nov 2004 Schlumberger Well Services

**Work address:**

Schlumberger Venezuela S.A.

Av. Río Caura, Centro Empresarial, Torre Humbolt, Piso 24, Prados del Este, Caracas, Edo. Miranda

Cementing and Pumping Technical, Operations and Sales Engineer

1. Dec-02 To Sep-04 / Sales, Marketing & Technical Support Engineer

* Cementing & Water Conformance/Control
* Bids & Contracts Coordinator (Technical and Financial experience coordinating several tender processes for pumping services with PDVSA and IOC’s both onshore and offshore).
* Marketing and Sales – PDVSA West and South, IOC’s

1. Jan - 02-Dec-02 / Manager Cementing Venezuela

* Headcount: 70 employees, Revenue per month: 1200 K US$

1. Dec – 00 -Jan – 02 / Senior Technical & Operations Cementing Engineer, in charge of Sales and Contract Coordination for various clients. Including: TOTAL, BENTON VINCCLER, PDVSA, PETROZUATA, SINCOR
2. Aug – 00-Dec – 00 / Cementing Operations Field Engineer – EAST VZLA

* Field Operations Supervisor - (5 Drilling Rigs). SINCOR, PETROZUATA and LASMO

1. May – 98-Aug – 00 / Cementing Operations Engineer in charge of sales and Technical support for PDVSA – WEST VZLA
2. Feb, 1996 to April, 1998 / Quality Assurance/Quality Control Engineer

* TQM Advisor and ISO 9000 implementation Leader
* ISO 9001 implementation in the cementing service line
* ISO 9002 implementation in the Coiled Tubing and Stimulation service line
* Participation in various second party audits

04/1992 - 02/1996 Various Positions / jobs Venezuela

Quality Manager (ISO 9000 Implementation)

Research Assistant in the Master Program (Materials Engineering)

Metallic frame engineer

Professor assistant (Materials and Mechanical Engineering)

Technical Papers

“Engineered Solution to Reduce the Impact of Lost Circulation During Drilling and Cementing in Rumaila Field, Iraq” Arshad, Umar, Jain, Bipin, Ramzan, Muhammad, Alward, Wassem, Schlumberger, Diaz, Lenin, Rumaila Operating Organization, Hasan, Ibrahim, South Oil Company Iraq, Aliyev, Ali, BP, Riji, Chen, Petrochina. International Petroleum Technology Conference held in Doha, Qatar 6 – 9 December 2015.

"Waterless Cement Slurry Controls Water Production in Southern Mexico Naturally Fractured Oil Wells" Adrien Sourget, Art Milne, Lenin Diaz, Eric Lian, Humberto Larios, for presentation at the SPE International Symposium and Exhibition on Formation Damage Control held in Lafayette, Louisiana, USA, 15-17 February 2012

"Dual-fiber Technology Simply and Effectively Cures Total Losses Without Knowing Size of Fractures" Alexandre Andrade, Lenin Diaz, Raul Bermudez, Henry Daniel Bedino, Nixklafe Carrillo, Candelario Vargas, SPE SPE ATW Bariloche, Argentina 17-18 November, 2011

IADC/SPE SPE-135905-PP, Lenin Diaz (co-author) “Design of “Anti Surge” Methodology to Mitigate Severe Loss Circulation while Running Non Conventional Casing / Liner Sizes to Isolate Salt and Clay Domes in Deep Wells in Mexico South” For presentation at the next IADC/SPE Asia Pacific Drilling Technology Conference and Exhibition to be held in Ho Chi Minh City, Vietnam, 1–3 November 2010

L. Diaz “Addressing lost circulation in natural fractures” England, May, 2010 (Drilling Symposium - Internal)

Lenin Diaz "Nuevo programa de ingeniería logra una alta tasa de éxito en un proyecto de desarrollo de campos petroleros en México", Petroleum Magazine (El Portal Petrolero de América Latina), #239, Dec, 2009

SPE/IADC SPE-119415-PP, Lenin Diaz "Innovative Computer Model Increases Success Rate When Placing Deep Kickoff Plugs in Southern Mexico" Presented at the SPE/IADC Drilling Conference and Exhibition held in Amsterdam, The Netherlands, 17–19 March 2009 (External)

L. Diaz "Integrated Plug Management Solution in MXS IPM Projects" England, 2009 (Drilling Symposium - Internal)

L. Diaz "Casing Stretch Considerations For Deep Wells" England, March, 2009 (Drilling Symposium - Internal)

Lenin Diaz "**Setting a new Standard for Cementing Efficiency offshore Venezuela**" ...VII Seminario Internacional de Fluidos de Perforación, Completación y Cementación de Pozos VII SEFLUCEMPO. May 19 - 23 / 2008. Margarita Island, Venezuela. (External)

Preservación de la Integridad de la lechada de cemento en operaciones de TR cortas profundas para maximizar la calidad de la Cementación en pozos de MXS. Jornadas Técnicas AIPM Comalcalco Tabasco, L. Diaz Torres; A. Angulo; N. Atencio Carrillo; H. Bedino; G. Cortes Blancas; Schlumberger; 11 al 12 de noviembre de 2010

37 Internal Technical Articles within Schlumberger from 2003 to 2011 on the following topics:

1) Slurry for Shallow gas wells in Lake Maracaibo.

2) Optimized Lightweight Slurry for Steam Injection Wells.

3) How to repair a 2 ft hole diameter of a corroded casing?

4) Polymer cement extenders as replacement for Spacers

5) Adjustable Fluid Loss Control Slurry for Squeeze operations in Lake Maracaibo

6) New Cement Pump Truck used to mix/pump 810 bbls of cement.

7) Cement for the First Multilateral Level 6 with Shell in Maracaibo

8) ISO 9000 based Cementing Quality Manuals in Spanish

9) Well Cleaning prior to Cementing in Horizontal and Highly Deviated Wells

10) Heavy Cement Slurry job pumped on the fly with a new cement pump truck in Venezuela

11) Total losses solution in Maturin, Venezuela

12) Improvement in centralizer design to prevent stuck casing 13) Fibers solved problems of losses in a critical 7" Liner job

14) How to optimize a 13.5 ppg lead slurry to reduce excess in cement volume due to losses

15) Cement SIMULATOR applied to define mud treatment before cementing

16) Kick-off plug using lightweight extended slurry

17) Job Design and Assessment Matrix (Cementing)

18) Cementing New Technology Presentations for Venezuela   
19) Cementing process flowcharts

20) RP for setting sidetrack cement plugs in MXS IPM Projects 21) Excessive Contaminated Surface Returns reduction

22) Method to estimate actual TOC or surface fluid returns using computer simulator output

23) Annular Pulsation after Cementing: Venezuela Offshore

24) Procedure for the execution of water exclusion treatments in low pressure wells in Mexico South

25) Casing stretch considerations for deep wells

26) Potential effect of the Additional Casing stretch due to Cementing Fluids

27) Innovative Computer Model Increases Success Rate When Placing Deep Kickoff Plugs in Southern Mexico

28) Alternatives to prevent effect of Slurry Channeling and Intermixing OBM-spacer-cement in Liner Cementing Operations in MXS IPM projects

29) Cementing Design Considerations, Procedures and Pre-Job Preparations Manual for MXS projects

30) New Material successfully used to control Lost Circulation. MXS Integrated projects Cases

31) Foamed Gel to water and Gas Shutoff Fluid

32) 100% success in placing Deep Cement Plugs is possible.

33) Reducing Liner Hanger Cleanout Time in MXS Projects

34) Successful Cementing job on Rotational 7" liner, Sen 233, IPM MXS

35) Successful Application of "Anti Surge" Methodology to Mitigate Severe Lost Circulation while Running non Conventional Casing / Liner sizes to Isolate Salt and Clay Domes in Deep Wells in Mexico South

36) Placing off bottom Kick off plug, successful case

37) Innovative application of the Fiber being pumped with the liner on bottom and un-set, after identifying losses during the mud circulation

04/1993 - 08/1995 Simon Bolivar University Caracas, DF

Education

Research assistant in the Materials Engineer Master Program

1. Courses on Materials Science, Advanced characterizations of materials, Diffraction of x-rays, Electron Scanning Microscopy, Samples preparation, Electrons Auger spectrometry

09/1986 - 04/1993 Simon Bolivar University Caracas, DF

Materials Engineering

Mayor: Manufacturing Processes, Minor: Metallurgy

Languages

Fluent in English and Spanish and knowledge of French and Italian

Professional memberships

Society of Petroleum Engineers (3190651)

American Society for Quality (63358596)

Professional Certifications & Registrations

(Venezuelan Engineers Association) Colegio de Ingenieros de Venezuela No. 89.245 (since, 09/93)

American Society for Quality - Certified Quality Manager No. 9362 (Until 2008)

IWCF (Drilling Well Control Programme Combined Surface and Subsea BOP Stack). Valid until 30.03.2021

BOSIET (Basic Offshore Safety Induction & Emergency Training – Including HUET, EBS and CA-EBS). Valid until 22.03.2020

Other skills

Computer Aided Cementing Simulations Software, Downhole Temperature Simulator, Water Control Design Simulators, Many software related to the oilfield drilling and production, All MS office software (Word, Excel, Power Point), VISIO Technical, MS Project, VersaCAD, AutoCAD, MS Access, Various image digitizer and pictures editors software, Networking software, Internet and e-mail, Web pages editors, Visual Basic programming, experience also in Macintosh environment and software.

Training Courses

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| **Oil Field Related** |
| 1. Drilling Fluids Engineering School, Hadley Fluids Engineering, Oklahoma, EEUU, June 2015 2. Water Solutions, by Jon elphick, SCHLUMBERGER Oct 2011 3. Foamed Cementing applications, SCHLUMBERGER, 1-2 Feb 2011 4. Production Technology Workshop. Institute of Petroleum Engineering, Heriot-Watt University. Edinburgh, Scotland, UK. (Agust/2008) 5. OFS4 (Advance Oilfield Services Finance). Caracas, (Agust/2006) 6. Water Management (Water Solutions and Control) School, Houston, EE.UU, SCHLUMBERGER (SEPT-OCT/2003) 7. Drilling and Production Technology. England and France, SCHLUMBERGER (AUG - SEPT/2003) 8. Well Cementing Advanced Course. Clamart, France, SCHLUMBERGER (JUL/2003) 9. General Field Engineer Control, Houston, Houston, EEE.UU, SCHLUMBERGER (Dec / 2001) 10. OFS 3 (People Management). Rio de Janeiro, Brazil (Nov./2001). 11. OFS 2 (Finance Advanced). Denver, Colorado (Sept./2001) 12. OTS 2 Cementing Advanced Course, Schlumberger United Kingdom Training Centre, England (April/2001) 13. Opstats (Operational Statistics), Venezuela (03/2000) 14. OTS 1 Cementing job design, Execution, Logistic and Pumping Units Operation and Maintenance, Schlumberger United Kingdom Training Centre, England (18/10-28/11/1999) 15. CHEVRON Quality, Health, Safety and Environment Certification Course, CHEVRON (06/1999) 16. First Aid, Schlumberger (05/1999) 17. Schlumberger Y2K Coordinator, Schlumberger (07/1999) |

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| **Quality Assurance and HSE Related** |
| 1. Offshore Survival Training and Certification: (*Basic Firefighting (IMO 1.20), Personal Safety and Social Responsibility (IMO 1.21), Personal Survival Techniques (IMO 1.19) and First Aids at sea course (IMO 1.13)*) 2. Laboratory Information Management System administration – Wyoming, EEUU (Sept, 2005) 3. ISO 9001:2000 Lead Auditor – IRCA training, BVQI, Mumbai, India (July, 2005) 4. Diploma in Fire & Safety Management, National Institute of Labour Education and Management, Chennai, India (June, 2005) 5. OHSAS 18001:1999 Lead Auditor – IRCA training, BVQI, Kuwait (May, 2005) 6. Quality Improvement (Kaizen), Kuwait Chamber of Commerce, Kuwait (March, 2005) 7. Schlumberger Management Development Program. Leadership Course, Bogotá, Colombia, SCHLUMBERGER (Nov / 2002) 8. Leader. Quality, Health, Safety and Environment Course, Schlumberger El Tigre, Venezuela (02/2000) 9. SQM 3. Role of the Quality leader and advanced TQM tools, SCHLUMBERGER DOWELL (17-21/11/97) 10. Environmental management system. ISO 14001, TV (07-09/07/97) 11. IQ-1. Basic TQM tools (problem solving and process improvement), SCHLUMBERGER DOWELL (18-21/05/97) 12. Environmental management system. ISO 14001, Perry Johnson, INC (16 hrs. 04-05/03/97) 13. Quality audits, TECNOLOGIA 2010 (32 hrs. 28/06/96) 14. Quality assurance and environmental management system, ISO 9000 & ISO 14000, FONDONORMA (22/10/96) 15. Quality in service companies, FONDONORMA (16 hrs. 11/10/96) |