

ROBERTO CERVANTES MULLER

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CAREER HISTORY:

Mr. Cervantes has over 30 years worldwide acquisition experience. Previous experience in, Vibroseis, and heli-portable jungle acquisition, airborne gravity and magnetic data providing continuous coverage over the land-marine interface; airborne data augment land and marine data. He has served as a land and marine acquisition consultant in more recent years. He is experienced in all aspects of project management, 2D/3D land and marine 2D and 3D acquisition, 3D and 2D field seismic data processing, survey planning and CDP coverage. Competent in the use of ProMAX, VERIFY-IT, FOCUS 4.3 3D and MicroMAX processing systems, 3D geometry and design packages (OMNI, MESA Core) and setting up Linux PC Cluster for seismic data processing. Without being and interpreter can use Charisma Geoframe, WinPICS and Hampson Russell.

Craddock Engineering June 2006 – Present

Quality control supervisor in a large 3-D dessert seismic acquisition operation with Geofizyka Krakow and Zueitina Oil Company. Using Sercel 408XL and SQC-Pro, Nomad 65 vibrators VE432, HYPACK guidance system and DSD Network, OMEGA processing and Omni Workshop software. Areas of Midween-Hakim, Fidda and Zella, NC-74A, NC74B. Also working in Tripoli offices in 3D design for coming projects and writing technical parameters and tender bids. Several presentation in PowerPoint were made to show partners and NOC. Create importance of Zero Phase Vibroseis recording and also importance of land survey positioning.

GRC July 2003 – March 2005

Quality Control Assurance Supervisor providing technical assistance and QC supervision for Land 3-D and Transition Zone Geophysical Surveys. Technical Manager in IT services. 3D data processing. Installation of PC Clusters using LINUX Redhat 7.2-7.3 and OSCAR Cluster management. Supervision and completion of land 3D Kehsht 3D for OEID in Fars Province in IRAN.

Trafalgar Exploration Services Inc 1998-2003

Quality Control Assurance Supervisor providing technical assistance and QC supervision for Land 3-D, OBC, Transition Zone Geophysical Surveys. Technical Manager in IT services. 3D data processing. Installation of PC Clusters using LINUX Redhat 7.2-7.3 and OSCAR Cluster management.

Recent project 2002 supervising a 3D high resolution seismic in Chad North Africa hired to implement and improve data quality . Increased production and implemented HSE standards. During 1998 worked in land vibroseis dessert operations in 6 different crews working for PDO in Oman.

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Freelance Geophysical Consultants Ltd. 1990-1997

2D,3D Acquisition Consultant. Land, Transition, Shallow Water and Marine Operations.

Recent Experience 3-D OBC/ dual sensor operations Syntron bottom cable Venezuela Senior QC seismologist responsible for data quality utilizing QC onboard processing. Tools. Land 3-D heliportable Peru 3D Acquisition Consultant. Marketing representative in South America. Various Land and Marine 2D and 3D projects in the USA and South America

Acquisition Consultant. 2D and 3D jungle heliportable and vibroseis operations. Central and South America utilizing SN388 and I/O II recording systems.

Halliburton Geophysical Services 1988-1989

Senior Observer. Assigned to 3-D land Vibroseis and Portable crews.

Geophysical Services, Inc. (GSI) 1987-1988

Assigned to 3D marine operations with dual fiber-optic streamers. Responsible for data project planning, survey setup planning and infill. Complied crew QC reports

Geosource, Inc. 1982-1986

Crew Manager, Shore Manager, and Instrument Manager. Experienced in the use and operation of contractor Binning systems. 3-D survey design tools. Vessel rigging and equipment installation.

Geophysical Services, Inc. 1980-1982

Crew Seismologist, Instrument Engineer, and Party Manager. Assigned to 2D and 3D marine operations. Worldwide

Western Geophysical 1977-1980

Junior Observer, Observer, and Chief Observer. Assigned to marine shallow water, 2D, and land Vibroseis operations .

Schlumberger 1975-1977

Mud Logger, Mineralogist. Assigned to well drilling operations .

EXPERIENCE AND SYSTEMS KNOWLEDGE:

Project Management

Parameter testing, survey planning, safety, and environmental impact.

Back-down and Teleseis applications.

OBC dual Sensor operations

Deep Water 3D Seismic Multi Streamer Operations

Binning systems with dual fiber-optic cables, also dual analogue streamer.

Tracking System STS III.

Gravity and Magnetometer marine/land

Ocean Bottom Cable Operations.

Parameter sweep testing, dynamite, poulter, primacord, heliportable, 3-D transition zone surveys,

Land 3D Seismic

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Experience with telemetry cable, quad and sextuple line swaths with octonary roll-on, perpendicular dynamite shot-line, single and double zig zag, slip sweep and vibroseis inline or perpendicular and patterned shot arrays.

Seismic Processing

Parameter testing, Apollo, Omega , FT-1, FT-2, ProMAX ,MicroMAX,
QC systems Census, SeisNav
Pelton ver 6.2
Geotrace Technologies 3D design
MESA Geological Modeling
Oil Pathfinder, Designing field variables in land
Swift Survey Package
Charisma Geoframe 4.2
WinPICS 5.53
Arcview 3.1
ArcMAP 8.3
Mapinfo 4.5
Refraction and Uphole software
Mesa 10.05
Vista 7.0
Omni Workshop 7.0
Opendtect 3.21
Hampson Russell CE 8.3
Vista 5.1 Processing

Instrumentation

Sercel 388/388, RAS-24, DFS-VII, MDS16, MDS-18, OYO DFM 480, I/O System One and Two, Seistronix TX-500, TSR II fiber optics, TIGER II, LRS-100, AIRCOM III, OYO MX-160 Syntrak. I/O MSX. La Coste Romberg Model G, Aram Aries, I/O System 4, Sercel 408UL, 408ULX, 428LX, RAS-24. I/O System 4, Spider, Seal system.

Shallow Water OBC dual Sensor operations , Transition Syntron and I/O Bottom cables

Vibroseis Electronics

VCS-IIIB, VCS-V, Mountain System (QC), Pelton Advance II , VibraSig. Post Sweep Service (PSS), Pelton Advance III Vib Pro, VE416, VE432.

Energy Sources

Vibroseis, , air guns, Thumper and dynamite (poulter and primacord), airguns, sleeve exploders, down hole hammer, Canterra, Jackro, Jed drills, (flushers) Augers, Bullrock II & III, Mayhew 500,1000 and Careys. S-wave vibrators, Digiseis and Thumper.

Navigation

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Differential GPS Trimble 4000 DGPS.Argo, Syledis, SPOT, Maxiran, Transit satellite MX-1107, GPS Ashtech XII, TI Navstar 1400, Shoran and Loran, hand-held GPS Magellan, Leica 1200 DGPS, Skyfix, Multifix III, Multifix IV, C-Nav.

Survey

Theodolites Wild T-0, T-1, T-1000, T-1600; Distomats (EDMs); Psion Organizer data collectors. Sercel, Leica , Trimble and Thales DGPS.

Geophone Testing Equipment

Geospace G-900, SMT-100, SMT-150, SMT-200, Seistec, LT388.

Operating Systems and Other Systems

UNIX, Ultrix, Open VMS, Open Windows, Novell, DEC 2020, PDP-11, MicroVAX, MicroMAX, ProMAX, 980B-990B, OS/2, CPM, MS-DOS, MOTIF, OSF1, DX10, VMS, SCO UNIX, X-Windows, Solaris, Unix AIX, Linux, Windows 95/98/ME, Windows NT 4.0/2000, XP and Vista, Office 2007, Linux Redhat 9 all Internet Software, HTML and JavaScript programming and Relational Database software.

TRAINING COURSES:

DFS V Operator's School, Dallas, 1980. Configurable Marine System Operator School,

Marine Firefighting School, College Station,

CMS Maintenance School,

980B & 990B Minicomputers and Assembly Language,

771 Satellite Communication,

CPR Medical,

MK 227 Gyrocompass,

MX 1107 Transit Satellite,

Digital Electronics,

Airgun Controller (TIGER II),

Dbase III Programming Language,

Advance UNIX for Mainframes,

Advance Macros and Programming, Spreadsheets,

Word Perfect 6.0, 1995

Local Area Networks (LAN), Novell 3.1, 1996

All PDO safety training required to work in Oman,1998

1995 HTML Internet Programming,

1999 Internet Networking

2000 Visual Basic Programming

2000 Routers and Internet Networking with Linux 6.1

2000 Windows NT

Seismic Courses Completed

1996. SeisNav OBC Software, Census 4.4, ProMAX 5.01,

1997. 3D Design, Geotrace Technologies,

1998. SSI SeisNet Real Time Data Capture

1999. Landmark Corporation, ProMAX 3D ver 7.1

1999. SLS, VERIFY-IT

2001. FOCUS 4.3 3D

2001. Oscar, PFVS with PC Clusters installation

AREAS WORKED:

Bolivia, Argentina, Peru, Chile, Uruguay, Panama, Colombia, Venezuela, Trinidad, Aruba, Curacao, Bonaire, Brazil, Ecuador, the Gulf of Mexico, USA, Cotonu, People's Republic of Congo, Cameroon, Mexico, Saudi Arabia, Nigeria, England, TChad, Korea, Iran ,Oman, Libya, Malta and France.

Terrain worked includes desert, Andes Highlands (4200 meter AMSL), swamp, transition zones, shallow water, deep marine, ocean bottom cable, sand dunes, national trust reserves, deltas, jungle heli-portable, plain jungle, Savannah plains, and environmentally sensitive areas with local natives.

LANGUAGES:

English, Spanish, Portuguese, French and some Arabic and Farsi.

AFFILIATIONS:

Active Member of the Society Exploration Geophysicist (SEG).
Vice Chairman Membership of the International Association of Geophysical Contractors (IAGC).
Member of the Geophysical Society of Houston

Recent Field Quality Control supervision

Zueitina Oil Company

Libya June 2006 – Present

Supervision of several 3D seismic surveys using vibroseis as energy source, setting field parameters and acquisition tolerances and processing routines. In charge of a Polish crew 2Z in blocks NC74A, NC74B, Safsaf, 103BC, 103D/T, Ettalla, 103EN-Ext, 103EL-Ext, NC171, LPC3. Using Sercel 428 and 408 with VE438 vibroseis electronics with DSD Network and Hypack guidance system. Field 3D QC processing and 3D volume rendering.

Alphageo India limited

INDIA Dec 7 To June 3 2006

Supervisor in 2 different seismic c crews working in North East India for National India Oil Exploration, using Hampson Russell, OMNI, VISTA 3D, MESA and many other geophysical.
Training software in many disciplines for the benefits of the company.
Recruiting and training suitable personnel to be able to work within the seismic crews using I/O System 4.

EDCO Kish International - Iran Dec 2004 TO Sep 2005

Supervising OEOC 3D crew in a semi transition seismic project in Mansuri 3D, near Ahwaz city, one of the largest oil reservoirs in Iran.

SINOPEC- NIOC – Iran May 2004 - Dec 2004

Supervising BGP Chinese crew in Kashan 3D land vibroseis and dynamite, crew start-up and parameter design. OEOC-OEID Paydar 2D land vibroseis crew near the border with Iraq, military area in the border with Iraq. Many mine fields being cleared by a special team before seismic crews get into the safe corridors.

Ecopetrol – Colombia Nov 2003 –April 2004

Supervising Western Geco vessel in a large marine 3D project with 8 streamers in Bahia 3-D, offshore Cartagena. Recording system was I/O MSX, Spectra Navigation, Omega 8.0 processing system, SSS air gun system, SENTRY solid streamer, C-Nav, Multifix 3 and Trinav positioning, Reflex real time binning system.

OEID –IRAN June to October 2003

Supervising Chinese Sinopec SGC-201 Crew in KHESHT 3D project with helicopter and dynamite in a mountain terrain , FARS province in IRAN.

KNOC- Korean National Oil Corporation May 3 – July 17 2003

Marine 2D in BLOCK VI-1 East Sea Korea, using solid streamer and SKY Premier positioning system, SYNTRAK recording system.

Cliveden Petroleum Chad North Africa 2001- 2002

Supervising a 3D high resolution seismic crew in Chad North Africa hired to implement and improve data quality . Increased production and organized a HSE program. Thumper as energy sources and RAS-24 acquisition system.

TPAO Turkey Dec 1999 –Nov 2000

Hired to supervise quality control on Chinese operated crews acquiring 2D and 3D land data Especially challenging project as this was the first project the Chinese had operated in Turkey. Also responsible for all equipment startup testing and field audits. Wrote the quality control specifications for TPAO

Petroleos Mexicanos (PEMEX) May-Sep 1999

Land transition with the use of dynamite, air guns and vibroseis as energy source in a complex area bordering the USA. Duties were as field QC and data processing with the use of SLS and VERIFY-IT to check the position of the hydrophones using first

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break picking. The training of the PEMEX geophysical staff in transition areas was also involved in the daily duties.

Petroleum Development Oman Jan 1998 to Sept. 1998

Field QC seismologist supervising the acquisition of 6 seismic crews using Vibroseis as energy source, P-wave and S-wave vibrators, single, double zig zag and crossline swath 3D designs, slip sweep in desert sensitive areas in the desert of Oman. Rotated through various operation

Empresa Nacional del Petroleo de Chile (ENAP) 1997-1998

On board QC supervision, including Omega 6.2 QC processing, UNAVCHK navigation processing, Real Time Dynamic binning system (FLEX-QC). Also the supervision and logistics of the seismic data acquisition in several 3D marine projects in the Strait of Magellan.

Enron Oil & Gas Venezuela Limited Caracas 1996-1997

Data acquired in the Eastern Gulf of Paria 3D (OBC) Ocean Bottom Cable shot by PGS. Air Gun source, dual sensor Syntrak bottom cable, On board QC processing utilizing Promax with Census for CDP coverage and attribute analysis My duties were, responsible for QC Data processing, close monitoring of the coverage in a congested area , coordinate planning of the infill with client and contractor to optimize coverage to provide necessary offsets. Also responsible for liaison with government officials such as PDVSA and Minister of Environment. Overall operations, daily report writing and logistics final report compiled for Enron and the Minister of Energy and Mines, Corporacion Venezolana del Petroleo.

Chevron Overseas Peru Limited 1996

Ucayali Basin, Jungle Peru Land Heliportable, 2D I/O System II with Dynamite, Gravity, Uphole, ProMAX field Processing, Operating in a sensitive area with natives, bats and rabies. My duties were field acquisition consultant responsible for QC processing and general operations.

Mobil Oil Bolivia : Madre de Dios Basin Jungle of Bolivia 1996

Land 2D Heliportable Recording system Sercel 388 , Uphole survey , Using field ProMAX processing system to generate brute stacks. My duties covered the complete operation which also included the field processing, instrument tests, operations and logistics. **Gavity survey using LaCoste Romberg Model G Gravity meters.**

Petrolera Perez Companc : Neuquen and San Jorge Basin Argentina 1995

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Vibroseis 3D survey recording 1200 channels, Contractor Western Geophysical, Omega, Specs field processing, Uphole survey . recording system I/O system 11, Mayhews 1000. Responsibilities Quality control of the complete operation :

Costilla Energy Incorporated 1995

3-D Vibroseis - Dynamite, transition zone in Texas. Two thousand channels on the ground GECO/Prakla crew using an I/O system II. Recording system Responsibilities QC supervision of the complete operation.

EXXON, 1995

LAND, MARSH- USA, QC various 3D jobs SWAMP, shothole with conventional survey equipment. Duties included, QC processing and seismic acquisition supervision using air boats and 6x6 buggies.

DOB: 1st October 1950

Education : B.S Mineralogy-Universidad de Chile, 1973

Post Graduate Degree in Computer Sciences- U. de Chile, 1984

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