

SHIRLEY ELIZABETH VILLAVICENCIO GALLO

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Geological Engineer, with 14 years of experience in Mine Geology, Exploration, Geotechnics and Hydrogeology, specialized in Project Management-PMP-Centrum-PUCP, currently studying ThePowerMBA-Business Expert, with great capacity for teamwork, conflict resolution, constant innovation, specialized in achievement management, oriented to the fulfillment of objectives and goals, in the proposed deadlines with high quality, safety and environmental standards. With extensive technical support endorsed by various Diplomas and specialized courses in Geology, Geotechnics and Hydrogeology.

Personal data

- CIP : 136050
- Birth Date : 28/05/1978
- DNI : 05644232
- Status : Single
- Driver's license A1 : N° B05644232

Education

- 📄 2001-2006: Bachelor degree in Geological Engineering - "Piura National University"
- 📄 Second Year in Civil Engineering "Piura University"

Job Experience

❖ Remicsa Drilling S.A.

Charge: Head of Geotechnical and Hydrogeological Operations

Functions:

- Creation, structuring and direction of Geotechnical and Hydrogeological Operations Area.
- Generation and coordination of new exploration, geotechnical and hydrogeological projects with Mining, Exploration, Construction, Energy and Consulting companies.
- Preparation and presentation of Technical-Economic Exploration, Geotechnical and Hydrogeological Proposals.

- Supervision, advice and monitoring of the awarded Exploration, Geotechnical and Hydrogeological Projects.
- Control and monitoring of the economic returns of the awarded projects.
- Preparation, supervision of valuations and cost control.
- Preparation and presentation of a quality dossier for exploration programs, water wells, piezometers and inclinometers.
- Control and certification of exploration, geotechnical and hydrogeological machinery, equipment and materials.

Labor achievements:

- Doubling the annual drilling footage to about 400,000 m, together with the operations team and commercial area.
- Author, manager and advisor of the first diamond drilling virtual reality simulator in Peru, together with the operations team.
- Preparation of manual of guide of materials for permeability tests (Lefranc and Lugeon), SPT tests, Cono Peck and LPT, taking samples with shelby tube.

From June 02, 2014 to the present.

❖ **Mining Company Antamina S.A.**

Charge: Junior Exploration Geologist

Functions:

- Responsible for the determination of geochemical correlations and associations, through the analysis of Pearson's correlations, principal component analysis and geochemical signals by Paul B. Barton.
- Classification and interpretation of the spatial distribution of igneous rocks using the Winchester and Floyd (1977) graphs, Chondrite graphs, the Primitive Mantle, Eu anomalies, Sr, Th content, etc.
- Responsible for determining the background and threshold values, through geostatistical analysis and geochemical interpretations.
- Responsible for managing geochemical databases and QA/QC work.
- Responsible for carrying out systematic and selective sampling in the various targets.
- Capacity in superficial mapping work and presentation of monthly reports for each target.
- Capacity for geostructural interpretations.

- Great capacity to develop research and teamwork, meeting high standards of safety, leadership and quality , results-oriented and meeting schedules.
- Management of Arcgis, IOGAS, Oasis Montaj, Leapfrog programs.

Labor achievements:

- Creation of sampling and QA/QC database.
- Creation of database of background and threshold values.
- Compliance with sampling and mapping program before the deadline.

From September 24, 2012 to April 30, 2014

❖ **ARCADIS Perú S.A.C.**

Charge: Project Engineer

Function:

- Performance as consultant in geotechnical-mine geology projects, field supervision and technical team leader. In charge of operations planning, decision making in the field, application of norms and standards in execution. Results-oriented and meeting schedules.
- Responsible for geological-geotechnical drilling, permeability and density tests, geological-geotechnical logging, selection of samples for rock mechanics, petrographic, mineragraphic tests, calculation of geotechnical parameters, structural geological interpretations, preparation of reports, etc. Supervision of tunnel support and slope stability.
- Management of AutoCAD, Surfer, Unwedge, Dips, Slide programs for control, modeling, structural geological evaluations and preparation of reports.
- Responsible and supervisor of field operations, supervision of tunnel support and slope stability. Geological-geotechnical investigations in mine workshops-plant, supervision, evaluation and taking of geological-structural data during the construction of the Toquepala Tunnel and Mine Workshops – Southern Peru, from November, 2011 to May, 2012).
- Responsible and supervisor of field operations, geological-geotechnical investigations in Constancia Project – Hudbay, Cu-Mo Porphyry Project (from August to November, 2011).
- Responsible and supervisor of field operations, geological-geotechnical investigations in a detailed engineering Project for disposition and conduction of

tailings in Quellaveco-Anglo American, Cu-Mo Porphyry Project (from March to August, 2011).

- Responsible and supervisor of field operations, geological-geotechnical investigations in a detailed engineering Project for Chumpe-Volcan Tailings Deposit (from November, 2010 to March, 2011).

Labor achievements:

- Fulfillment of the programs before the proposed deadlines.
- Preparation of personnel in leadership and supervision of operational work.
- Optimize the interrelationships between operational and supervisory personnel to achieve the proposed objectives.

From September 01, 2010 to July 06, 2012.

❖ **Mining Company San Juan S.A. Perú**

Charge: Mine Geologist

Functions:

- Preparation of exploration program in polymetallic veins and bodies.
- Preparation of isovalues plans.
- Preparation of mineral resource estimation report, through geoestatistical analysis.
- Preparation of geomechanical work plans and implementation of geomechanical tables.
- Supervision and realization of geological-geotechnical Works in the interior of the mine and waste dumps.
- Experience in surface and underground geological-geotechnical mapping.
- Management and modeling with various software.
- Ability to work in a team, proactive, oriented to achieve results meeting high standards, etc.
- Management of AutoCAD, Surfer, Unwedge, Dips, Slide programs for control, modeling, structural geological evaluations and preparation of reports.

Labor achievements:

- Preparation of drilling program.
- Preparation of mineral resource estimation report.

From January 05 to August 31, 2010

❖ **SVS Ingenieros S.A.C.**

Charge: Consultant in Mine Geology-Geotechnics

Functions:

- Consultant in Mine Geology- Geotechnics Projects.
- Mapping Surface, supervision of geotechnical drilling for stability of workings inside the mine, permeability and density tests, geological-geotechnical logging, selection of samples for rock mechanics tests, calculation of geotechnical parameters, geological- geotechnical Surface mapping, structural geological interpretations, etc.
- Management of Surfer, Autocad, Dips, Slide, LogPlot programs, for structural geological evaluations and preparations of reports.
- Ability to work in a team, proactive, oriented to achieve results meeting high standards, etc.

Labor achievements:

- Fulfillment of the Programs before the proposed deadlines.
- Determination of the RQ of old cores.

From, March 23 to December 31, 2009

❖ **Mining Company San Juan S.A. Perú**

Charge: Mine Geologist

Functions:

- Ability to work in a team, proactive, oriented towards achieving results meeting high standards of companionship, safety and care for the environment, etc.
- Ability to carry out work of the area in the absence of the Senior Geologist.
- Experience in surface and underground geological-geotechnical mapping, sampling, logging, quality control and geological interpretations in polymetallic vein system (Cu-Pb-Zn-Ag-Au) in andesites and preparation of Diamond Drilling Projects.
- Management of the GEAS program to control the sampling database.
- Geological modeling and control through the use of the Surfer, Autocad, etc.
- Use of the Raster tool for digitizing drawings.
- Experience in Estimation and Categorization of Mineral Resources using geostatistical methods and standards.
- Geological participation in weekly, monthly and annual Mining Plans.

- Management of Autocad, Surfer, Unwedge, Dips, Slide programs for control, modeling, structural geological evaluations and preparation of reports.

Labor achievements:

- Discovery of the Constanca vein at lower levels, through geological projections.
- Geological advice on maintaining the continuity of mining work according to mineralogical continuity at the same levels (advance galleries).

From, March, 2007 to October, 2008.

❖ **Mining Company Santa Luisa S.A. associated with Mitsui Mining & Smelting Co. Ltd. Branch of Perú**

Charge: Training Geologist in the Department of Geology.

Functions:

- Recognition of the main structural geological characteristics of the enclosing rocks and mineralized structure, which are present and influence the behavior of the rock mass when an underground excavation is carried out.
- Experience in recording and description of diamond exploration core cores.
- Data collection of geomechanical parameters in the field and management of geomechanical tables.
- Ability to handle the Schmidt hammer to estimate the resistance of the rock and the Digital Tape Extensometer to measure the displacement of rock masses.
- Monitoring and control in the field of the adequate and correct installation of cemented anchor bolts, application of shotcrete and installation of metal mesh.
- Management of the Phase2 and Unwedge program for stress modeling and analysis.
- Use of the AutoCAD program, for the graphic representation of mineralized zones.

Labor achievements:

- Data collection of geomechanical parameters in the field and management of geomechanical tables.
- Monitoring and control in the field of the adequate and correct installation of cemented anchor bolts, application of shotcrete and installation of metal mesh.

From, September to December, 2006.

❖ **Piura National University**

Charge: Assistant in the Soils mechanics Laboratory.

Functions:

- Soil analysis experience to determine its humidity, plasticity, compression and tension resistance, % of gravels, clay and slimes content.
- Briefing execution with graphics, according to ASTM parameters.

From April 2005 to July 2005.

❖ **Independent Consultant**

Charge: Field Geology Assistant

Functions:

- Assistant in exploration works in the Northern Zone of Peru, Au and Cu mineralizations.
- Experience in surface mapping, sampling, and geological and structural interpretations in gold quartz veins and Cu mineralization.
- Experience in modeling and management of different software.
- Ability to work in a team, proactive, oriented to achieve results, etc.

From, January to March, 2005.

Languages

- English Intermediate level (written and spoken) advanced (read).

Softwares

Microsoft Office 2013	Oasis Montaj-SPS-IOGAS
Autocad, Surfer	ArcGis-Log Plot
Unwedge-Dips-Phase-Slide	Feflow, Modflow, Leapfrog

Symposium/Seminar

- Speaker at the I Geotechnical Symposium, on April 24, 2019, with the theme "Oriented Diamond Drilling: Measurement of alpha and beta angles for Geotechnical Characterization".

- Speaker at the Technical Seminar “Geomechanics and Tunnel Construction”, organized by Elite Consulting, on May 18, 2015, with the topics “Importance of Geotechnical Drilling and taking of alpha and beta angles”.

Independent Works

- Geological and geostructural mapping for the “Preparation of the Technical File and Execution of Works: Huampani bridge, Green bridge and Huancar brigde”, From November, 2020 to February, 2021.

Courses

- “MBA-Business Expert”, ThePowerMBA, from September 2020 to September 2021.
- “Underground Hydrology Diploma”, CECAMIN, from August 2019 to June 2020.
- Workshop “Efficacy, Efficiency and Productivity, CDH, January 20, 2020.
- Course “Training of Internal Auditors: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018”, Bureau Veritas, from November 14 to 15, 2019.
- Course “Interpretation of the rules: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018”, Bureau Veritas, from September 19 to 20, 2019.
- Course “ICAM”, MAPFRE, from October 10 to 11, 2019.
- Course “Diamond Drilling Fluids”, Coretech, March 19, 2019.
- “Diploma in Engineering of Water Resources and Management of Hydrographic Basins”, CELAEP, from November 18, 2017 to April 21, 2018.
- “6th Latin American Congress os Tunnels and Underground Works”, ELITE, from August 21 to 23, 2017.
- “International Course on Desing of Pumping Wells and Monitoring Wells Instrumentation”, CECAMIN, May, 2017.
- "Course Hydrogeology Applied to Rocks and Soils", BSGrupo, from April to June, 2016.
- "Sustaining Design" (Software Phase2 y Slide), International Geotechnical Center, from September 09 to 10, 2015.
- “Engineering and Construction of Deep Foundations”, Fobus Building, from August 26 to 28 de agosto, 2015.
- “Slope Stability with Slide (V.6.0)”, Engineers CIDHMA, from June 01 to 03, 2015.

- "Applied Structural Geology in Exploration and Mining - ProExplo2015", Institute of Mining Engineers of Peru, from May 16 to 17, 2015.
- "Support Design for Tunnels and/or Mining Excavations", Geomechanical and Geotechnical Training Center, December, 2014.
- "Project Management", CENTRUM-PUCP, from May, 2014 to March, 2015.
- "Foundations of Sequential Stratigraphy", Dr. Thierry Sempere, from April 02 to 04, 2014.
- "Excel Level4", New Horizons, from March 05 to 06, 2014.
- "Hydrothermal Alterations", Geowissens S.A.C, from February 13 to 15, 2014.
- "Excel Level3", New Horizons, February 11, 2014.
- "Excel Level2", New Horizons, January 09, 2014.
- "Structural Geology applied to Mineral Deposits", Msc. Rildo Rodríguez, from August 22 to 24, 2013.
- "Interpersonal Communication", New Horizons, August 08, 2013.
- "Igneous Rock Petrology applied to Mining Exploration", Geowissens S.A.C, from July 19 to 20, 2013.
- "ProExplo2013", Institute of Mining Engineers of Peru, from July 19 to 21, 2013.
- "ProExplo2013_Geostatistics for Explorations", Institute of Mining Engineers of Peru, from July 17 to 18, 2013.
- "Workshop on Quality Assurance and Control in Geological Exploration", Dr. Armando Simón, from July 09 to 11, 2013.
- "Interpersonal Competences in Emotional Intelligence", Inveo Perú S.A.C., May 16, 2013.
- "Geochemical Data Processing and Quality Control in Mining Exploration", Msc. Keller Guerra, from April 19 to 21, 2013.
- "Target_ArcGis", Ing. Jorge Tafur, from March 09 to 11, 2013.
- "Geochemistry applied to the Exploration Of Magmatic-Hydrothermal Reservoirs", Dra. Mirian Mamani, from January 10 to 13, 2013.
- "Geochemical and Metallogenetic aspects of Rare Earths", Dra. Mirian Mamani, November, 2012.
- "Diplomado en Geología de Minas", INTERCADE, desde el 12 de diciembre del 2011 hasta el 27 de mayo del 2012.
- "First Aid and Fire Fighting" 06 hours, Occupational Safety Group, February 05, 2012.

- "Safety Course_DS-055" 40 hours, Emergency Support, from November 02 to 07, 2011.
- "Diploma course in mining resources in Geo-statistics evaluation" Accredited by Universidad de Antofagasta dictated in Lima from April 19th 2008 to May 2009.
- "Retaining walls construction and design", Organized by ELITE Training
Speaker Eng. Miguel De la Torre Sobrevilla, Place: MEM auditory, Date: July 30th-31st and August 1st 2008.
- "Starting mechanism, Charge and Transportation in Mining" Accredited by Instituto de Capacitación Minera , 25th to 27th June 2008 at Colegio de Ingenieros del Peru, Speaker: Osvaldo Aduvire
- "You are part of Management", Speaker: Eng. Raúl Ora, Lugar: Cía Minera San Juan- Peru, Date: June - December 2007
- XXIV Latin-American course in Metallurgy studies UNESCO-SEG "Mineralogy, geo-chemistry and geo-microbiology for the environmental management of mining waste", Organized by: Sciences and engineering faculty, Engineering department, Mine engineering section -Pontificia Universidad Católica del Perú. Date: 22nd to 27th August 2005
- Course in Geo-mechanics and Security systems applied to the holding and prevention of rock precipitation organized and certified by: INTERCADE – Mining sector and Universidad Nacional San Cristóbal de Huamanga Date: 15th to 17th June 2005
- First national course of Geology, Mining and Metallurgy, certified by: CIP-CDLL and Instituto Internacional de Capacitación y Desarrollo Date: May 18 to 20th may 2005
- IX Seminar of Geology, applied to mining and civil works, organized by: Universidad Nacional de Ingeniería- Geological, mining and metallurgical engineering Faculty -Escuela de Ingeniería Geológica. Date: 3rd and 4th November 2004

Personal References

- ❖ Ing. Eduardo Tejada (Head of Explorations in Compañía Minera Santa Luisa y de Mitsui Mining & Smelting Co. Ltd. Peru branch) Phone number 2212484 anexo 172, email: etejada@mmsperu.com.
- ❖ Ing. César Raraz, General Management in GEEEX - 998 098 163 cesar.raraz@gmail.com.

- ❖ Ing. Roberto Cabrera, Geotechnical Superintendent in B2GOLD CORPORATION-Nicaragua roberto.cabrera@b2gold.com.ni.
- ❖ Ing. Carlos Tejada, Senior Geologist en Tysa, crtejada16@yahoo.com.ar.
- ❖ Ing. Guillermo Arellano, Senior Mine Geologist, [\(01\) 93010986](tel:+520193010986) - 3811803, tatin1111@yahoo.es.
- ❖ Ing. Oswaldo Tovar, General Management in Resource Engineering S.R.L., 999657317, oswaldo.tovar@icloud.com.