

**BEFORE THE ENVIRONMENTAL APPEALS BOARD
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C.**

In re:)
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Florence Copper, Inc.) UIC Appeal No. 17-02
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UIC Permit No. R9UIC-AZ3-FY11-1)
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**PERMITTEE FLORENCE COPPER, INC.’s RESPONSE TO PETITION FOR REVIEW
FILED BY THE GILA RIVER INDIAN COMMUNITY**

ATTACHMENT 4

Florence Copper, Inc. (“FCI”) Project Team Curricula Vitae

FLORENCE COPPER INC.

DAN JOHNSON PROFESSIONAL EXPERIENCE

2011-Present

Florence Copper Inc., Vice-President/General Manager

Oversee all engineering and technical aspects of the pilot-test project and planning for full-scale commercial mineral extraction, including injection, point of compliance and monitoring well planning and installation, generation and interpretation of groundwater and geochemical data, groundwater flow and pollutant fate and transport modeling, geochemical modeling, contractor oversight, regulatory compliance, and stakeholder/community involvement.

2007-2011

QuadraFNX Mining, Technical Services Director/Assistant General Manager

Management of engineering and environmental projects throughout North America and Chile. Management of consultants/contractors, development and implementation of stakeholder engagement strategies, strategic planning, budgeting and financial planning, and development of sustainable development programs. Supervised in the internal company-wide ISO audit process and also one of three key members on QuadraFNX's due diligence team. Managed technical and operational services and environmental compliance programs during the developmental stage and start-up of the Carlota Copper Mine

2005-2007

Phelps Dodge/Freeport-McMoran Inc., Life Cycle Analysis Team/Senior Manager

Performed multi-disciplinary life cycle and sustainability analysis. Supervised environmental policy and compliance, water quality and balance management, water and land management, geology/hydrology, physical and chemical stability analysis, leaching (heap and in-situ) optimization programs and stakeholder engagement. Designed and implemented leaching and recovery optimization systems and post-closure facilities.

1997-2005

Phelps Dodge Corp., Remediation Manager/Chief Environmental Engineer

Managed multiple environmental-related projects throughout North and Central America. Performed technical oversight and project management of consultants, coordination and implementation of stakeholder engagement strategies, and sustainable development planning. Provided technical support to all Phelps Dodge facilities and internal environmental compliance auditing. Managed several complex water supply and water treatment systems, environmental compliance work, storm water and aquifer protection, and remediation and reclamation programs at several Phelps Dodge operations. Developed and managed the implementation of various types of environmental permits (Title V/Minor Synthetic, APP, NPDES/AZPDES, CWA, SDWA, USACE 404/401/402 Permits, NEPA/EIS). Directed consultants and staff members to meet all provisions and requirement incorporated into the various permits. Interfaced closely with federal,

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DAN JOHNSON PROFESSIONAL EXPERIENCE (Con't)

state and local regulatory agencies, environmental groups, NGO's, senior and corporate management, internal and external legal counsel, and several hundred mining and mineral processing personnel on a routine basis. Served as the Technical Committee Chairman for the large-scale remediation site known as Pinal Creek Group and provided technical support to optimize leaching techniques, including in-situ recovery, throughout various Phelps Dodge owned sites in Arizona.

1994-1997

Kennecott Utah Copper, Sr. Project Manager, Environmental/Water Resources/Processing

Managed environmental, remediation, water resource and wastewater treatment programs at a large open-pit copper/gold mining operation. Prepared environmental permits, remedial investigations/feasibility studies, risk assessments, remediation plans, geochemical and contaminant transport models, biological and ecological studies, water supply and management plans, and waste water treatment plans. Supervised installation of water supply wells, cutoff walls and interceptor well systems, and pipelines and booster pump transfer stations. Managed dewatering and slope stabilization planning.

1989-1994

Montgomery Watson Hazra, Sr. Hydrologist/Water Resource Engineer

Managed water resource and environmental projects throughout the United States for governmental agencies, local municipalities, and industrial and mining clients. Supervised remedial investigations, feasibility studies and remedial actions. Managed well supply and groundwater monitoring programs and installation of treatment systems (low-permeable slurry/cutoff walls, permeable reactive barriers, air stripping and vapor extraction, disinfection, injection and extraction wells, infiltration and interceptor trenches, low-permeable caps, water polishing and treatment, etc.). Performed groundwater flow and transport modeling for several complex projects. Managed remedial activities at several superfund remedial program sites. Supervised complex well field systems, large-scale aquifer testing programs, tank farm removals and site closure programs. Designed and operated complex vadose zone and water treatment systems from soils and bedrock. Managed removal from groundwater of chlorinated solvents, petroleum hydrocarbons, acids and bases, heavy metals, chemical and biological munitions, and pesticide and herbicides. Supervised and conducted several supply well installations and rehabilitations, aquifer testing programs, dewatering systems, and basin-wide water management plans. Prepared permits and engineering packages for several municipal, industrial and mining clients. Developed surface run-off and groundwater basin models (flow, geochemical, and pollutant fate and transport).

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**DAN JOHNSON
EDUCATION AND CERTIFICATIONS**

**University of Arizona, M.S. Hydrology
University of Arizona, B.S., Geosciences
Professional Engineer Registration
Registered Geologist
Senior Environmental Compliance Auditor
ISO 14001 Certified Auditor
ISO 9000/Six-Sigma Process
Groundwater/Geochemical Modeling
MSHA surface miner health and safety
OSHA 8-hr hazmat**

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IAN REAM PROFESSIONAL EXPERIENCE

2012-Present

Florence Copper Inc., Senior Hydrogeologist

Engineering of the pilot test wellfield, commercial wellfield and commercial feasibility. Drilling, installation, construction, development, testing, and zonal sampling of production and monitor wells in soil and bedrock. Analysis and reporting of dewatering/pore pressure data for slope design and dewatering project performance and planning. Groundwater and pollutant fate and transport modeling. Water balance modeling. Programming and deployment of dataloggers for groundwater level monitoring, flow monitoring and control. Geochemical modeling and interface with metallurgical program results. Aquifer pump testing, compliance sampling and other environmental monitoring and permit compliance. Laboratory metallurgical testing and water treatment plant design. Contractor oversight, procurement, contracting and construction management of the wellfield.

2007-2012

Water Management Consultants / Schlumberger Water Services, Senior Hydrogeologist

Performed data analysis and presentation of dewatering / slope stability projects, water balances, impact analysis, mine water supply, potable water system development, and environmental analysis and compliance. Experienced in GIS, aquifer test analysis, and contract/project management. Conceptual model design and numerical model construction guidance. Field duties encompassed drilling, piezometer construction, water well construction and pumping test projects for mines in the U.S. and Mexico. Manage data acquisition, storage, and regulatory reporting of water level and water quality data. Involved with interfacing between clients and federal/state regulators on water related compliance issues including mitigation measures and post-closure options. Responsible for supervision of drill rigs, gathering and logging of geologic samples, implementation of pumping tests and baseline hydrologic monitoring. Installed and maintained dataloggers and telemetry systems. Database input and report writing.

2000-2007

City of Tucson, Tucson Water, Hydrologic Technician

Supervision of production and monitor well drilling and construction, geologic soil logging, borehole geophysical logging, aquifer test implementation and analysis. Responsible for routine monitoring of water supply and observation well network, including organization, management and presentation of the data. Field duties associated with the research, feasibility, development, instrumentation, and operational monitoring of City of Tucson recharge facilities including Central and Southern Avra Valley Storage and Recovery Projects (CAVSARP/SAVSARP) and Sweetwater Recharge Facility (SRF). Telemetry solutions, including radio networks and graphical end user displays of data gathered at these projects. Involved in regulatory groundwater sampling for monitor wells including the Tucson Airport Remediation Program (TARP). Layout and as-built surveying of potable water pipelines, reservoirs and water detention structures.

FLORENCE COPPER INC.

**IAN REAM
EDUCATION AND CERTIFICATIONS**

The Evergree State University, B.S. focusing on hydrology and geochemistry

Microbiological fouling of wells and remediation techniques

Campbell Scientific CR10X/Loggernet & CR1000/CRbasic

AQTESOLV aquifer test analysis

GoldSim groundwater modeling

ArcGIS 8

PHREqc

MSHA surface miner health and safety

OSHA 8-hr hazmat

FLORENCE COPPER INC.

GREGORY PHILLIPS PROFESSIONAL EXPERIENCE

2012- Present

Florence Copper Inc., Process Superintendent

Responsible for review and approval of engineering drawings, P&IDs, Specifications, Procurement, Quality Plan, Construction Plan, Commissioning Plan, Trend Notices, and HAZOPS for a Production Test Facility for an In-Situ copper recovery project. Participated in the development and review of the Pre-Feasibility Study for commercial operation, participated in Due Diligent review of other property.

2007- 2012

Carlota Copper Co., Sr. Supervisor Process

Oversight construction of a 6,000 gpm SX/EW plant and orchestrated the commissioning and startup. Maintained better than 95% availability with zero lost time incidents for over 5 years. Projects completed include the acid cure system, storm water pumping system, crud filtering system, laboratory construction, and pit dewatering and water evaporation

1988-2007

Maintenance and Electrical Supervisor, Phelps Dodge

During the 19 years I worked at this property I held many different positions (Pipefitter, Welder, Mechanic, Machinist, Lead Technician and Supervisor) in a number of departments (EW Tankhouse, SX, Plant Services, ER Refinery, Rod Plant and Smelter). I held supervisory positions for 10 years. At the ER Refinery I was part of the startup team for the most technically advanced refinery in the world maintaining 92% availability and no lost time injuries. I developed and implemented plans for shutting down and preserving the plant for future use. As Rod Plant Supervisor I improved availability and team work and made a number of system improvements. I was a member of teams that traveled to other properties to make suggestions to improve production and safety throughout the company.

1987-1988

Maintenance, Inspiration Gold

Responsible for all aspects of maintenance on the largest dredge in the world and the only offshore gold dredge in the world. I was part a team that converted this dredge from a tin dredge out of Indonesia to a gold dredge working 3 to 5 miles off the coast of Nome, Alaska. This held many challenges as the operating and maintenance manuals were written in Indonesian and we had no translator. After the 9 month season was over it was winterized preserved for the next season.

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**GREGORY PHILLIPS
EDUCATION AND CERTIFICATIONS**

Eastern Arizona College, Mechanical, Computer, Machinist

Inferred photography (level 1)

Vibration analyses (level 1&2)

Ultrasonic Inspection (level 1&2)

Rory McLaren Fluid Power training

METALS training

HR/Safety facilitator

STAR training

MSHA Instructor

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**GLENN HOFFMEYER
PROFESSIONAL EXPERIENCE**

2011-Present

Florence Copper Inc., Technical Services Manager

Responsible for Production Test Facility engineering activities, in situ copper recovery testing programs and prefeasibility/feasibility programs for the Florence Copper property.

2010-2011

Freeport McMoRan, Chief Engineer

Interim Manager of the Central Analytical Service Center, an automated sample preparation/analytical laboratory. Responsible for operations, maintenance and engineering groups with a total workforce of approximately 100 persons.

2009-2010

First Solar, Raw Materials Group, Metallurgical Engineer

Tested hydrometallurgical methods for tellurium metal recovery from solar panels and other materials. Managed bench scale and pilot testing programs to confirm flow sheet recoveries and operating cost.

2008-2009

Glenn F. Hoffmeyer, Metallurgical Consulting, Consultant

Performed prefeasibility study for commercializing metal powder production technology. Provided operational plant support for copper powder facility.

2004-2008

Phelps Dodge/Freeport McMoRan, Chief Engineer

Managed 23 people with responsibility for day-to-day operations of SX-EW based metal powder plant and an annual plant budget of \$3MM. Demonstrated commercially viable equipment availability and product quality for proprietary technology to lower cost and improve product purity for green field metal powder production facilities. Successfully implemented product development program for value added copper products such as powder and briquettes.

1997-2004

Cyprus/Phelps Dodge, Refining & Smelting Operations, Sr. Metallurgist

One year special assignment to El Paso refinery operations as interim tank house Senior Supervisor. Developed annual operating and capital budget for Miami Refinery. Coordinated Miami copper refinery continuous improvement programs, increasing production to 110% of design capacity through optimization of plant availability and current efficiency.

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**GLENN HOFFMEYER
PROFESSIONAL EXPERIENCE (Con't)**

1995-1997

Cyprus, Miami SX-EW Operations, Metallurgist II

Performed column leaching and solvent extraction/electrowinning troubleshooting duties. Implemented surfactant leaching aid test program, demonstrating significant improvements in copper recovery. Successfully carried out alternative anode reaction electrowinning pilot plant program. Managed customization project for leach modeling simulation program.

1993-1995

Santa Fe Pacific Gold, Mesquite Mine, Metallurgist

Supervised weekly gold production pour as gold refinery (induction furnace operations) metallurgist. Proficient in Leco analyses for sulfur, AA analyses, bottle roll and column leach testing.

1990-1993

Asarco, Silver Bell Mine, Metallurgist

Performed daily relief supervisor duties. Responsible for optimizing copper recoveries from dump leaching/rubblization. Scheduled delivery of materials such as acid, iron and copper product shipments.

**GLENN HOFFMEYER
EDUCATION AND CERTIFICATIONS**

**Michigan Technological University, B.S. Metallurgical Engineering/Mineral Processing
ISO 9001 Lead Auditor Training, Robin Plummer
Project Management, AMA, Cyprus, Phelps Dodge
Sampling Practice, Francis Pitard**