

Feb 2025 CV of Jason David Todd, PG Position of Responsibility WY PG-3777

Company	From Date	To Date	Year	Position	PoR	Description	Location
Pilot & Index Mining Solutions Owner/Principal Consultant	Feb 2025	Current	2025	Technical Expert	Y	Remote inspection of 970' long vent raise	Wyoming
			2024	Project Manager	Y	Performed geotechnical evaluation on a cave entrance to determine condition of ground support and risk analysis	Montana
Roughstock Mining Services Mining Consultant	Feb 2018	Feb 2025	2024	Technical Expert	Y	Wrote new SWPPP plan including BMPs and instituted procedures for environmental compliance.	Montana
			2024	Project Manager	Y	Technical Report for 1MM tpy aggregate quarry. Authored Ch 1-5, 13-25, compile and edit Ch 1-25.	British Columbia
			2024	Project Manager	Y	Technical Report for 750k tpy tpy aggregate quarry. Authored Ch 1-5, 13-25, compile and edit Ch 1-25.	British Columbia
			2024	Technical Expert	Y	Developed mine development and production plan, for 8k tpd UG base metals mine. Provided project economic estimates, equipment and personnel schedules.	Arizona
			2024	Technical Expert	Y	Design and scheduling of a LOM surface waste storage facility for a 400 tpd UG precious metals mine.	Yukon
			2023	Technical Expert	Y	Design and scheduling of a primary dewatering system for a 400 tpd UG precious metals mine. Settling sump and pump station design and construction drawings. Design pumping path. Pump selection and procurement assistance.	Yukon
			2023	Project Manager	Y	Field supervision of geotech program consisting of 5 km of line cutting and seismic data collection and 10 sonic drilling holes	Alaska
			2023	Project Manager	Y	Field supervision of contractors assembling a 60 bed modular camp. Contractors included dirt work crews, electrical and plumbing crews, crane, and OTR transport across international borders.	Alaska
			2023	Technical Expert	Y	Ventilation Audit for a 1,500 tpd UG mine	Oaxaca, MX
			2023	Technical Expert	Y	Designed LOM plan for 3k tpd aggregate quarry. Updated internal reserve and resource report.	Hawaii
			2022	Project Manager	Y	Field supervision for contracotrs for a steep technical road build, including mechanically stabilized earth walls.	Alaska
			2022	Technical Expert	Y	Whole Mill Tails study for use backfill and permitting applications.	Montana
			2022	Technical Expert	Y	Sub-Level Extraction review study. Reviewed planning, execution and reconciliation of stopes for a 2,500 tpd UG precious metals mine.	Montana
			2022	Technical Expert	Y	Acted as a third party review of internal mine plans.	Montana
			2022	Technical Expert	Y	Trade off study for replacement of internal combustion engines with battery electric vehicles.	Montana
			2021	Technical Expert	Y	Design and scheduling of a primary dewatering system for a 3,000 tpd UG precious metals mine. Settling sump and pump station design and construction drawings. Design pumping path. Pump selection and procurement trade off studies.	Montana
			2021	Technical Expert	Y	Mine design, including development, production, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, and ventilation plan for a scoping study for a 2,500 tpd UG precious metals mine.	Montana
			2021	Technical Expert	Y	Designed cemented rockfill plant and associated infrastructure	Montana
2021	Technical Expert	Y	Trade off study for replacement of internal combustion engines with battery electric vehicles.	Montana			

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			2021	Project Manager	Y	Designed claim staking program for 4000 ac exploration project	Montana
			2021	Technical Expert	Y	Short to Long range Mine design, including development, production, sequencing and scheduling, equipment and personnel schedules, and ventilation plan for an active 2,000 tpd UG precious metals mine.	Nevada
			2020	Technical Expert	Y	Mine design, including development, production, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, and ventilation plan for a scoping study for a 3,000 tpd UG precious metals mine.	Montana
			2019	Technical Expert	Y	Mine design, including development, production, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, and ventilation plan for a scoping study for a 6k tpd UG base metals mine.	Alaska
			2019	Technical Expert	Y	Evaluate paste plant and provided recommendations for improved efficiency.	Montana
			2018	Technical Expert	Y	Mine design, including development, production, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules for a PFS study for a 10k tpd UG base metals mine.	Arizona
New Era Petroleum Vice President-Technical Services	Mar 2010	Current	2010-2024	Project Manager	Y	Develop and implement annual corporate and project annual budgets. MSHA compliance. Technical and geological supervision.	Wyoming
			2016	Project Manager	Y	Developed and implemented reclamation of the Greybull oil production facility.	Wyoming
			2014	Project Manager	Y	Developed geosteering and sampling protocols for directionally drilled oil wells. Supervised 100k feet of geosteered drilling.	Wyoming
			2013	Project Manager	Y	Directed contractors, in-house staff, and others to bring a \$40 million underground facility (920' deep concrete lined shaft and associated workings) into production on schedule and on budget.	Wyoming
			2012	Project Manager	Y	Supervise exploration diamond drill program including drillers, core loggers, and logistics. 7 holes	Wyoming
			2012	Technical Expert	Y	Acted as QP for permitting of UG oil recovery facility.	Wyoming
			2011	Project Manager	Y	Supervise exploration diamond drill program including drillers, core loggers, and logistics. 6 holes. PFS for mine development.	Texas
			2011	Technical Expert	Y	Directional well drilling including interception of exiting surface well. Core logging and geosteering.	Pennsylvania
			2010	Technical Expert	N	Co-authored 4 patents related to recovery of hydrocarbons from an underground platform.	
			2010	Project Manager	Y	Mine design, including development, drilling production plan, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, ventilation plan, and economics for FS study for a UG oil recovery facility.	Wyoming
			2010	Project Manager	Y	Supervise exploration diamond drill program including drillers, core loggers, and logistics. 8 holes	Pennsylvania
RockWell Petroleum Senior Mine Engineer	Dec 2006	Feb 2010	2010	Project Engineer	Y	Mine design, including development, drilling production plan, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, ventilation plan, and economics for PFS study for a UG oil recovery facility.	Louisiana
			2009	Project Engineer	Y	Developed QA/QC protocols for oil exploration drilling. Supervised 160k feet of geosteered drilling.	Wyoming
			2007-2009	Project Engineer	Y	Detailed development designs for UG oil recovery facility. Includes road header development, geotechnical drilling, drilled raises, and production well planning	Wyoming

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Company	From Date	To Date	Year	Position	PoR	Description	Location
			2006	Project Engineer	Y	Mine design, including development, drilling production plan, infrastructure excavation, sequencing and scheduling, equipment and personnel schedules, ventilation plan, and economics for FS study for a UG oil recovery facility.	Wyoming
Stillwater Mining Company Senior Mine Engineer	Mar 2003	Nov 2006	2003-2006	Senior Mine Engineer	Y	Develop and implement long and short range development plans. Develop LOM plans up to 25 years in duration; including development, production, equipment requirements, ventilation/infrastructure requirements, manpower levels, scheduling, on-site economics and downstream processing requirements. Sequence monthly and quarterly mine plans, which required the coordination of 15 different crews. Track weekly and monthly progress of development mining crews (mining, diamond drill and raisebore), report on progress in relation to forecasts and budgets. Prepare annual budgets for ventilation and development. Write RFPs and AFEs for various contracts up to \$4.5 million. Design, cost estimation and project management of several capital projects. Detailed design of driving layouts for mining crews. Ventilation design of a mine which currently has over 50 miles of underground drift. Work with NIOSH and MSHA on diesel particulate regulations. Inspection of underground workings to assure adherence to company policies and standards. Report writing to various levels within the company and to outside regulatory agencies. Supervision of junior ventilation engineer.	Montana
Stillwater Mining Company Mine Geologist	Aug 2000	Feb 2003	2000-2003	Mine Geologist	N	Daily underground work including: face inspection, grade estimation and ore/waste control, sampling, structure and lithologic mapping, and liase with mine operations personnel. Diamond drill proposals and core logging (including geo-technical). Generation of working plans and cross sections. Development of sub-level panel designs using VULCAN software. Generation of lithologic and mineralized 3-D models.	Montana
TVX Gold Mine Geologist	Jun 1997	Aug 2000	1997-2000	Senior Mine Geologist	Y	Face inspection, sampling, mapping, and liase with mine personnel. Diamond drill layouts and geotechnical core logging for designated area of the mine, including exploration, definition, and condemnation drilling. Resource and Reserve calculation and presentation. Stope designs for production longhole drills. Generation and maintenance of a mine wide 3-D GEMCOM database including; silling, stopes, diamond drilling, block models, and geological interpretations. Identification of structural features which could impact ground conditions in open stopes. Short and long term production planning. Writing of reconciliation reports. Occasional fill in work for drill-blast engineers, and survey. Supervision of contract diamond drill crews, geotechnical personnel and laborers. Member of the company's mine rescue team.	Manitoba
Madsen Gold Mine Geologist	Feb 1997	Jun 1997	1997	Mine Geologist	N	Face inspection, sampling, mapping. Diamond drill layouts and core logging.	Ontario
TVX Gold Mine Geologist	May 1995	Feb 1997	1995-1997	Mine Geologist	N	Face inspection, sampling, mapping. Diamond drill layouts and core logging. Maintenance of sections and GEMCOM(PC XPLOR) database. Sectional ore reserve calculation and reporting. Supervision of diamond drill crews, core loggers, and laborers.	Montana