



September 9, 2015

Summit Powder Mountain  
c/o Ms. Andrea Milner  
3632 North Wolf Creek Drive  
Eden, Utah 84310

IGES Project No. 01628-008

Subject: Statement of Professional Qualifications  
Engineering Geology for The Ridge Nests Development  
Powder Mountain Resort  
Weber and Cache Counties, Utah

References: IGES, Inc., 2014, Geotechnical Investigation, The Ridge Nests Development, Powder Mountain Resort, Weber and Cache Counties, Utah Project No. 01628-008, dated September 16, 2014.

IGES, Inc., 2015, Response to Review Comments – Geology, Geotechnical Investigation, The Ridge Nests Development, Powder Mountain Resort, Weber and Cache Counties, Utah, Project No. 01628-008, dated September 1, 2015.

Ms. Milner:

As requested, IGES has prepared the following Statement of Professional Qualifications for Mr. Peter Doumit, P.G., C.P.G. The request for professional qualifications was by Simon Associates LLC (SA) in a letter dated September 3, 2015. The letter by SA was pertaining to the September 1, 2015 response to review comments prepared by IGES (referenced above), which was prepared and sealed by a professional geologist, Mr. Doumit. We understand that SA would like to assess whether Mr. Doumit meets the qualifications of an *engineering geologist* as defined in Title 104, Chapter 27 of the Weber Code of Ordinances. To this end, please find the attached professional resume, professional references, and a sample list of various projects and organizations Mr. Doumit has been involved with in the past.

**Closure**

We appreciate the opportunity to provide you with our services. If you have any questions please contact Mr. Peter Doumit at (801) 270-9400.

Respectfully Submitted,  
IGES, Inc.

A handwritten signature in blue ink that reads "David A. Glass". The signature is written in a cursive, flowing style.

David A. Glass, P.E.  
Senior Geotechnical Engineer

Attachments:

Professional Resume – Mr. Doumit  
Professional References – Mr. Doumit  
Project List – Mr. Doumit

# Peter E. Doumit, P.G., C.P.G.

Address: 2165 N 125 W, Layton, UT 84041

Cell: (801) 440-7230 Email: [pvdoumit@yahoo.com](mailto:pvdoumit@yahoo.com); [peterd@igesinc.com](mailto:peterd@igesinc.com)

## **Professional Summary:**

Extensive mineral exploration field and office professional experience, including geologic mapping, drilling operations, well completions, core description, geophysical log interpretation, resource modeling and estimation, and technical report writing for the following commodities: oil shale, coal, phosphate, potash, tar sand, aggregate, and nahcolite.

Experienced in various geologic hazard investigations and the construction of engineering geology reports, including surface-fault rupture, debris-flow, and slope stability assessments, fault and fracture mapping, rock, soil, and water sampling, and environmental assessments.

Professional educator experience at both the high school and collegiate levels, and skilled in giving formal/informal, public/private presentations at conferences, meetings, or other functions.

Effective communicator, collaborator, and independent worker.

## **Education:**

**Master of Arts in the Earth Sciences, Geology Emphasis**, August 2005  
University of Northern Colorado, Greeley, Colorado GPA: 4.0 on a 4.0 scale

**Bachelor of Science with Honors in Natural Science Geology**, June 2002  
University of Puget Sound, Tacoma, Washington GPA: 3.5 on a 4.0 scale

## **Professional Geological Experience:**

**Senior Geologist**, February 2015-Present

**IGES, Inc.**, Salt Lake City, UT (801) 270-9400

- Position involves a combination of office and fieldwork.
- Office work consists of comprehensive engineering geology and geohazard technical report writing and editing, solicitation and assessment of drilling bids, and documentation of various field activities.
- Fieldwork consists of various geohazard investigations, QA/QC of stockpile sampling, the identification of potential construction material sources, resource characterization, and wellsite geologist support.
- Conduct consultations with clients, engineers, land-use planners, and city reviewers as to the nature of geologic hazard investigations and subsequent findings.

**Geologist**, April 2013-February 2015

**Norwest Corporation**, Salt Lake City, UT (801) 539-0044

- Position involved a combination of office and fieldwork.
- Office work consisted of comprehensive technical report writing, resource modeling, estimation, and interpretation, due diligence research and analysis, solicitation and assessment of drilling bids, construction of drilling prognoses, geophysical log interpretation, map and diagram production and interpretation, database development and maintenance, QA/QC proofing, and finalization/interpretation of data from completed wells.
- Fieldwork consisted of core and rotary drill cutting description, analytical sampling, drilling supervision, ore outcrop mapping, fault and fracture mapping, drill hole and access road location determination, ore grade control, supervision and direction of well development and completion operations, and stormwater protection investigations.
- Extensive field and office experience with the following commodities: oil shale, phosphate, coal, tar sand, aggregate, and some potash.

- Collaborated within an interdisciplinary team consisting of geologists, mining engineers, processing engineers, hydrologists, and environmental scientists.

**Associate Geologist**, October 2011-March 2013

**Norwest Corporation**, Grand Junction, CO (970) 245-6552

- Position involved a combination of office and fieldwork.
- Fieldwork predominantly consisted of the autonomous description, interpretation, photography, and preparation for shipment of oil shale and coal core samples.
- Additional fieldwork involved bulk sample collection, outcrop mapping, ground truthing of proposed drill hole locations, the description of rotary drill cuttings, oversight and detailed documentation of geophysical logging and daily drilling activities, and the direction and supervision of plugging and abandonment operations.
- Office work consisted of geophysical log interpretation, cross-section production, diagram production and interpretation, comprehensive technical report writing, database development and maintenance, QA/QC proofing, and finalization/interpretation of data from completed wells.
- Devised and implemented coal exploration work plans and sampling plans.
- Conducted a due diligence geologic characterization of tar sands resources on specific leases in various parts of Utah.

**Associate Geologist**, June 2007-October 2011

**Daub and Associates, Inc.** Grand Junction, CO (970) 254-1224

- Position involved a combination of office and fieldwork.
- Office work consisted of geophysical log interpretation, diagram production and interpretation, technical report writing, the compilation of permits, database development and maintenance, data entry, QA/QC proofing, ordering and acquisition of field supplies, and finalization/interpretation of data from completed wells.
- Fieldwork predominantly consisted of the description, interpretation, photography, and preparation for shipment of oil shale, nahcolite, coal, and potash core samples.
- Additional fieldwork involved the description of rotary drill cuttings and video logs, conducting mineral and geohazard assessments, the collection of soil samples, analysis for contamination from drilling pads, oversight and documentation of geophysical logging and daily drilling activities, direction and supervision of plugging and abandonment operations, QA/QC of mine activities, and conducting well-specific hydrologic and geologic sampling and testing.
- Acted as project leader involved in the planning, data acquisition, interpretation and finalization of data from a major oil shale coring reclamation project.
- Formally presented pre-project work plans and post-project data results and conclusions at meetings with clients.
- Compiled composite notebooks presenting the data collected and a summary of well activities for individual wells on multiple projects.

**Field Geologist**, July 2006-August 2006

**Daub and Associates, Inc.** Grand Junction, CO (970) 254-1224

- Conducted detailed fracture mapping fieldwork for oil shale research in the Piceance Creek Basin of northwestern Colorado.
- Photographed fracture study areas and stratigraphic/lithologic abnormalities.

**Master's Thesis Research**, July 2004-July 2005

**University of Northern Colorado**, Greeley, Colorado

*Stratigraphy and Paleocology of the Upper Jurassic Morrison Formation in the Picket Wire Canyonlands of the Comanche National Grassland, Southeastern Colorado*

- Worked under contract for USDA Forest Service to determine locations of sensitive dinosaur fossil resources.
- Measured formation thicknesses at various localities to produce individual stratigraphic sections.
- Documented stratigraphic location of dinosaur bone-bearing horizons found within canyon.

- Collected rock samples of various units contained within the Morrison Formation for sedimentologic and petrographic analysis.
- Compiled individual stratigraphic sections into a composite section detailing precise stratigraphic location of all dinosaur fossil occurrences within the canyon.
- Interpreted sedimentologic and stratigraphic findings to determine paleoecology of the area during the Late Jurassic Period.

**Geophysical Logging Engineer**, September 2002-October 2003

**Southwest Geophysical Services, Inc.** (now Jet West Geophysical)

Farmington, New Mexico (505) 325-8531

- Collected borehole geophysical data for the oil and gas, coal, water, mineral, and environmental industrial sectors.
- Compiled detailed composite geophysical logs using WellCAD software.
- Interpreted geophysical logs for company men to make informed decisions about the fate of drilled wells.
- Maintained and operated geophysical logging equipment and vehicles.
- Assisted in the report writing and lithologic log formulation for government projects.

**Undergraduate Senior Thesis**, June 2001-June 2002

**University of Puget Sound**, Tacoma, Washington

*A Stratigraphic Study of the Type Section of the Bumping River Tuff, Mt. Rainier National Park, WA*

- Analyzed, measured, and described individual strata units using hand samples and thin sections.
- Sampled units for geochemical analysis with x-ray diffractometer and petrographic analysis with petrographic microscope.
- Formulated a composite stratigraphic section of the studied units.
- Interpreted geologic structures and field data gathered to compile complete depositional histories of individual units.
- Presented research at UPS Fall Symposium for Student Research, August 2001.

**Volunteer Fieldwork**, Cascade Mountains, WA, July-August 2001

- Assisted volcanologists Paul E. Hammond and Keith A. Brunstad in their ongoing research on the evolution of the Cascade volcanic arc.
- Sampled volcanic units, took bedding attitudes, and aided in the interpretation and correlation of units around Mesatchee Creek in Mount Rainier National Park, WA.

**Geological Teaching Experience:**

**Adjunct Physical Geology/Introduction to Astronomy Professor**, August 2006-May 2007

Colorado Mountain College, Rifle Campus, Rifle, CO (970) 625-1871

- Taught Physical Geology, Geology of Western Colorado, and Introduction to Astronomy courses.
- Instructed students in lecture setting on fundamental geologic and astronomical principles, processes, and history.
- Conducted various laboratory experiments in order to accentuate concepts learned in lecture and expose students to different geologic and astronomical laboratory and field research techniques and methodologies.
- Led multiple field trips to analyze the unique geological setting and features of west-central Colorado, including its development through time and impact from human activities.
- Led multiple “star parties” in which various features of the night sky were identified and viewed both with the naked eye and with a telescope.

**Science Teacher**, August 2005-June 2007

Rifle High School, Rifle, CO (970) 625-7725

- Taught five high school science courses for sophomores, juniors, and seniors.

- Courses taught included Geology, Astronomy, and Integrated Science II.
- Demonstrated the applicability of modern science to common local and global problems.
- Introduced students to scientific research, methodology, and critical thinking.
- Led students on field excursions to examine local geologic features.
- Led astronomy night viewing sessions for students and parents.

**Earth and Space Science Instructor**, June-July 2004 and June-July 2005

Frontiers of Science Institute, Math and Science Teaching Institute, UNC (970) 351-2976

- Taught high school students essential components of geology and astronomy.
- Produced lab and field exercises to provide hands-on earth science experiences.
- Led field trips to analyze the geology of the Black Hills and Rocky Mountain National Park.
- Advised students on the protocol for writing a technical scientific research paper.
- Mentored a student research project examining the stratigraphy and depositional environment of the Devil's Backbone, north-central CO.

**Earth Science Teacher**, January 2005-May 2005

Ridgeview Classical Schools, Fort Collins, CO (970) 494-4620

- Taught a single high school earth science course for juniors and seniors.
- Developed curriculum for and taught the fundamental principles of the various earth science realms, including geology, meteorology, oceanography, astronomy, physical geography, and environmental science.
- Emphasized the application of the study of the earth sciences to current world geohazards.

**Geology 100 Teaching Assistant and Lab Coordinator**, January 2004-May 2005

University of Northern Colorado, Greeley, Colorado (970) 351-2647

- Introduced to and instructed introductory students in basic geologic principles.
- Taught fundamental lab and field methods and techniques for identifying rocks and minerals, and the basis for topographic and geologic map interpretation.
- Led field trips to analyze the geology of Rocky Mountain National Park, CO.
- Coordinated field trips and lab activities and conducted weekly meetings to instruct new TAs on how to teach the labs.

**General Skills:**

- Expert in core description, having described tens of thousands of feet of oil shale, nahcolite, coal, phosphate, potash, tar sand, and aggregate core.
- Advanced in geologic mapping, the use of a Brunton compass and GPS, and the identification of rocks and minerals in field and outcrop setting.
- Extensive knowledge of the lithology and stratigraphy of the Uinta Basin, UT, Piceance Creek Basin, CO, Paradox Basin, UT, and Bull Mountain Basin, MT.
- Fluent in the acquisition, analysis, correlation, and interpretation of a wide variety of geophysical and petrophysical logs.
- Adept in the ability to write technical papers and instruct their construction, including but not limited to: NI 43-101 and NI 51-101s, comprehensive well summary reports, resource assessments, mineral and geohazard assessments, environmental assessments, plug and abandonment reports, sampling and analysis plans, mine plans, stormwater management plans, and plans of operation.
- Extensive experience in the analysis and interpretation of data contained within topographic maps, geologic maps, and aerial photographs.

**Computer Skills:**

- Advanced/proficient with:
  - Microsoft Office suite
  - AutoCAD
  - Carlson SurvCADD
  - Strater

- WellCAD
  - Google Earth
  - Expert GPS
  - Corel Draw
  - PhotoShop
  - Adobe Professional
- Working knowledge/experience with:
    - MineSight
    - ArcGIS

**Training and Certification:**

- **Certified Professional Geologist** with American Institute of Professional Geologists, CPG-11783, May 2015-Present
- **Professional Geologist** for State of Utah, #9325094-2250, February 2015-Present
- **Professional Geologist** for State of Idaho, PGL-1520, April 2015-Present
- **Professional Geologist** for State of Wyoming, PG #3730, April 2010-Present
- MSHA Annual Refresher, The Safety Consortium, Salt Lake City, UT, March 2015
- Nuclear Gauge Training, Nuclear Testing Services, Salt Lake City, UT, March 2015
- HAZMAT, Nuclear Testing Services, Salt Lake City, UT, March 2015
- SWPPP Inspection Training, Norwest Corporation, 2013
- MSHA New Miner 32-hour Surface Training, Delta-Montrose Technical College, Delta, CO, June 2010
- ASBOG Fundamentals of Geology Test: **Score 88/100**, October 2008
- ASBOG Practice of Geology Test: **Score 82/100**, March 2010
- PRAXIS II General Science Content Knowledge Exam #10435: **Score 180/200**, Nov. 2004
- Radiation Handling and Safety Training, Southwest Geophysical Services, Inc., Farmington, NM, January 2003

**Professional Affiliations:**

- Member, Vice-Chair, Association of Environmental and Engineering Geologists (AEG), 2015-Present
- Member, American Institute of Professional Geologists (AIPG), 2015-Present

**Honors:**

- Outstanding Graduating Geology Student, UPS Geology Department, 2002
- University of Puget Sound President's Scholarship, 2001-2002
- University of Puget Sound Murdock Grant for Summer Research Recipient, 2001
- Team Captain, Baseball, UPS, 2002
- UPS Athlete of the Week, Baseball, 2001 & 2002
- Honorable Mention All-Northwest Conference, Baseball, UPS, 2001 & 2002
- 1<sup>st</sup> Team All-NWAACC Conference, Baseball, Spokane Falls Community College, 2000
- Baseball Team Most Valuable Player, SFCC, 2000
- President's List, SFCC, Winter/Spring Quarters, 2000
- Gonzaga University Regents Scholar, 1998-1999

- Activities:**
- **Mining Ambassador**, Utah Mining Association, 2014
  - **Assistant Varsity Baseball Coach**, Rifle High School, Rifle, CO, 2007
  - **Colorado High School Baseball Coaches Association**, 2006
  - **Junior Varsity Baseball Coach**, Rifle High School, Rifle, CO, 2006
  - **Colorado Scientific Society**, Student Member, 2004-2005
  - **National Adult Baseball Association**, Denver Bulls, Denver, CO, 2004
  - **Colorado-Wyoming Junior Academy of Sciences**, Field Trip Leader, Rocky Mountain National Park, CO, 2004
  - **Colorado-Wyoming Junior Academy of Sciences**, Earth Science Judge, UNC, 2004
  - **Varsity Baseball**, Gonzaga University, Spokane Falls Community College, Washington State University and the University of Puget Sound, 1998-2002
  - **Society of Exploration Geophysicists**, Student Member, 2002

- Publications:**
- *A Unification of Science and Religion*, RoseDog Books, 2010, 260 pgs.

- Formal Presentations:**
- *Stratigraphic and Lithologic Consistency and Variability of the Mahogany Zone Oil Shale in the Eastern Uinta Basin, Utah*: Presented at the International Oil Shale Symposium at the Colorado School of Mines, October 2013; first author, presenter.
  - *Stratigraphic, Lithologic, and Enrichment Character of the Mahogany Zone Oil Shale in Eastern Utah*: Presented at the International Oil Shale Symposium in Tallinn, Estonia, June 2013; co-authored, did not present.



# **Professional References for Peter E. Doumit, P.G., C.P.G.**

## **For work as a Senior Geologist with IGES (February 2015-Present):**

Charles Payton, P.G.  
Engineering Geologist  
(801) 631-1613 (cell)  
c2payton.egs@gmail.com

## **For work as a Geologist/Associate Geologist with Norwest Corporation (October 2011-February 2015):**

Steven Kerr, P.G., C.P.G.  
Project Manager-Geology  
Millcreek Mining Group  
(801) 904-2250 (work)  
(801) 949-4478 (cell)  
stevenk@millcreekmg.com

## **For work as an Associate Geologist with Daub & Associates, Inc. (June 2007-October 2011):**

Jerry Daub, P.G., C.P.G.  
President  
Daub & Associates, Inc.  
(970) 254-1224 (work)  
(970) 216-1010 (cell)  
gjdaub@daubandassociates.com

## **For work as a Geophysical Logging Engineer with Southwest Geophysical Services, Inc. (now Jet West Geophysical) (September 2002-October 2003):**

Mick Peterson  
Principal  
Jet West Geophysical Services, LLC  
(505) 325-8531 (work)  
jwgs@live.com



**PETER E. DOUMIT, P.G., C.P.G.**

**Title:** Senior Geologist

**Expertise:** Mineral Exploration  
Engineering Geology  
Geologic Mapping  
Geohazard Assessment  
Geologic Modeling

**Academic** B.S., Natural Science-Geology, University of Puget Sound (2002)

**Background:** M.A., Earth Science-Geology, University of Northern Colorado (2005)

**Registration:** Certified Professional Geologist – American Institute of Professional Geologists, CPG-11783  
Professional Geologist – Utah No. 9325094-2250  
Professional Geologist – Wyoming PG-3730  
Professional Geologist – Idaho PGL-1520

**Summary:** Mr. Doumit has 10+ years of mineral exploration experience consisting of all aspects of upstream operations, including project management, permitting, geologic mapping, drill hole siting, prognosis development, drilling operations, geologic and geophysical logging, well completions, and abandonment and reclamation operations, followed by database development, geologic modeling, resource estimation, and technical report writing. Mr. Doumit has 5+ years of engineering geology experience, including surface-fault rupture, debris-flow, and slope stability geohazard investigations, fault and fracture mapping, rock, soil, and water sampling, and environmental assessments.

Select professional experience includes the following:

**Mineral Exploration**

- Served as lead well-site geologist responsible for the detailed core description, core handling, photography, and drilling operations documentation for multiple drilling projects involving two oil shale operators in the Piceance Creek Basin of Colorado.
- Served as well-site geologist responsible for the detailed core description, core handling, photography, and exploration drilling operations documentation for a metallurgical coal mine near Trinidad, Colorado; performed a similar role for a metallurgical coal exploration drilling program near Poteau, Oklahoma.
- Served as lead well-site geologist responsible for the detailed core description, core handling, photography, exploration drilling operations documentation, and plug and abandonment operations for a sodium bicarbonate mine in the Piceance Creek Basin of Colorado.
- Acted as field project manager and lead well-site geologist for a deep exploratory potash core hole in the Lisbon Valley near Moab, Utah.
- Acted as field project manager and lead well-site geologist for a thermal coal exploration drilling campaign in the Bull Mountains Basin of Montana.
- Acted as field project manager and lead well-site geologist for several oil shale exploration

and bulk sample core hole drilling projects in the Uinta Basin of Utah, conducted by two major oil shale operators.

- Served as lead geologist in the core description and analytical sampling of a large phosphate exploration drilling program near Vernal, Utah. Also supervised well completion operations for the installation of a series of monitor wells.
- Performed detailed literature and field investigation of potential clay sources within and around the Uinta Basin of Utah for a major oil shale operator.

#### **Geologic Mapping, Geohazard and Environmental Assessment, and Miscellaneous**

- Conducted extensive field geologic mapping of a phosphate deposit near Vernal, Utah.
- Performed geologic mapping, fault mapping, sampling, and core description of a limestone aggregate deposit around an active mining pit near Payson, Utah.
- Performed extensive fracture mapping of the Green River Formation oil shale in the Piceance Creek Basin of Colorado for hydrologic and basin structural analysis.
- Conducted fracture mapping and a detailed hydrogeologic study for a groundwater anomaly encountered while drilling in oil shale of the Uinta Basin of Utah.
- Examined a potash deposit for evidence of faulting near Milford, Utah.
- Served as field project manager and lead geologist for a major oil shale reclamation drilling project in the Piceance Creek Basin of Colorado; responsible for ensuring the safety of all parties involved in the project and the integrity of the core samples.
- Conducted a mineral and geohazard inspection for a property to be developed by the city of Grand Junction, Colorado.
- Conducted a mineral and geohazard site investigation of three potential solar farm properties in south-central Utah.
- Executed a debris-flow hazard assessment of Buckley Draw for the city of Provo, Utah.
- Performed a geologic hazard investigation of a 120-acre property for residential development in Draper, Utah.
- Performed a multi-phase environmental investigation in advance of litigation for an oil and gas operator north of Parachute, Colorado. Included soil and water sampling, spring and seep identification, core description, and contamination analysis.
- Supervised and documented environmentally sound drilling practices for a reverse-circulation phosphate exploration drilling project near Soda Springs, Idaho.
- Conducted site investigations of former drill pads to ensure compliance with stormwater management plans for a phosphate company near Vernal, Utah.
- Provided lead supervision, management, and documentation of the safe retrieval of a stockpile of palletized core from an underground oil shale mine near Rifle, Colorado.
- Performed on-site QA/QC of stockpile sampling and testing methodology for an oil shale mine in the Uinta Basin of Utah.

#### **Professional History:**

*Senior Geologist*, IGES, Inc., Salt Lake City, UT 2015-Present  
*Geologist*, Norwest Corporation, Salt Lake City, UT 2013-2015  
*Associate Geologist*, Norwest Corporation, Grand Junction, CO 2011-2013  
*Associate Geologist*, Daub & Associates, Inc., Grand Junction, CO 2007-2011  
*Geophysical Logging Engineer*, Southwest Geophysical Services, Inc., Farmington, NM 2002-2003

**Certification:** MSHA Surface Miner

HAZMAT  
Nuclear Gauge Testing

**Professional Affiliations:** Member, Vice-Chair, Association of Environmental and Engineering Geologists (AEG)  
Member, American Institute of Professional Geologists (AIPG)

**Publications:** *A Unification of Science and Religion*, RoseDog Books, 2010, 260 pgs.

**Formal Presentations:** “Stratigraphic and Lithologic Consistency and Variability of the Mahogany Zone Oil Shale in the Eastern Uinta Basin, Utah”: Presented at the 33<sup>rd</sup> International Oil Shale Symposium at the Colorado School of Mines, October 2013; first author, presenter.

“Stratigraphic, Lithologic, and Enrichment Character of the Mahogany Zone Oil Shale in Eastern Utah”: Presented at the International Oil Shale Symposium in Tallinn, Estonia, June 2013; co-authored, did not present.

**Collegiate Teaching Experience:** *Geology 111 Physical Geology*, Fall Semester 2006, Colorado Mountain College, Rifle, CO  
*Astronomy 101 Introduction to Astronomy*, Spring Semester 2007, Colorado Mountain College, Rifle, CO