



# ROSS CONSULTING

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## General Experience:

9/95 – Present: Consulting Geologist Phoenix, AZ

5/06 – Present: Certified General Real Estate Appraiser Phoenix, AZ

- Mine appraisal and geological evaluation of mineral resources.
- Preparation of mineral property evaluation and appraisal reports.
- Estimation of the tonnage and quality of ore reserves
- Geologic mapping.
- Borehole sampling and sample testing analysis.
- Preparation of geologic cross-sections and drill logs.
- Preparation of Floodplain Use Permit Applications.
- Mine planning.
- Supply and demands studies for mineral commodities.
- Property Tax Consulting.
- Staking of unpatented mining claims.

5/00 – 4/02 Epoch Wellsite Services – Mudlogging Geologist Bakersfield, CA

Petroleum and natural gas exploration.

Drill cutting sampling and evaluation.

Core sampling and evaluation.

Natural gas analysis.

Interpretations of numerous petroleum and natural gas plays.

Extensive Windows Network maintenance.

Use of well-logging and gas detection equipment.

Production of final well reports.

## Education:

December, 1999 Northern Arizona University Flagstaff, AZ

**Bachelor of Science in Geology**

May, 2006 Arizona Board of Appraisal Phoenix, AZ

**Certified General Real Estate Appraiser 31433**

## Expert Witness Testimony:

IRON MOUNTAIN TRAP ROCK v. DAN WARD, ST. FRANCOIS COUNTY, MO – Appeal 13-84000 – Before Hearing Officer Monaghan on 4/13/2015.

DOE RUN CO. v. RICK PARKER, REYNOLDS COUNTY, MO – Appeals 11-82500, 11-82502, 11-82503, 11-82504, 11-82505 Before Hearing Officer Johnson on 3/11/2015.

GAVILAN PEAK ESTATES, LLC v. ROCK PRODUCTION TECHNOLOGIES, LLC – AZA (36091) 34964 (DCHD-2009-0087) – Before Judge Pearlstein on 9/10/2013.

## Projects:

<p><b>CEMEX – Arizona</b> Sand and Gravel -Geological Evaluation, Borehole Sampling and Testing - Financial Analysis &amp; Supply and Demand Analysis -Mine Planning -Mineral Property Appraisal</p>	<p><b>Vulcan Materials – Arizona</b> Sand and Gravel -Geological Evaluation, Borehole Sampling and Testing - Financial Analysis &amp; Supply and Demand Analysis -Mine Planning -Mineral Property Appraisal</p>
<p><b>Reynolds, Iron and Shannon County Assessors – Missouri</b> Lead, Zinc, Copper -Consulting re: Doe Run Company -Geological Evaluation -Supply and Demand Analysis -Financial Analysis Worksheets</p>	<p><b>Navajo Nation Tax Commission – Arizona</b> Coal, Oil &amp; Gas -Geological Evaluation -Supply and Demand Analysis -Mine Planning -Financial Analysis Worksheets -Mineral Property Appraisal</p>
<p><b>Michigan Limestone Dundee Property – Michigan</b> Limestone -Supply and Demand Analysis -Financial Analysis Worksheets</p>	<p><b>Arizona State Land Department – Arizona</b> Industrial Minerals -Mineral Commodities Market Analysis -Geological Consulting</p>
<p><b>Rosemont Mine – Arizona</b> Arizona -Property Tax Consultation</p>	<p><b>Carlotta Mine – Arizona</b> Copper -Property Tax Consultation</p>
<p><b>Phoenix Cement – Arizona</b> Gypsum -Geological Evaluation, Borehole Sampling and Testing -Mine Planning</p>	<p><b>Holiday Rock – California</b> Sand and Gravel -Geological Evaluation, Borehole Sampling and Testing -Mine Planning</p>
<p><b>Dudleyville Gypsum – Arizona</b> Gypsum -Geological Evaluation, Borehole Sampling and Testing -Supply and Demand Analysis -Mine Planning -Financial Analysis -Mineral Property Appraisal</p>	<p><b>Gravel Resources – Arizona</b> Sand and Gravel -Geological Evaluation, Borehole Sampling and Testing -Supply and Demand Analysis -Mine Planning -Financial Analysis -Mineral Property Appraisal</p>
<p><b>Copper Giant Mine – Arizona</b> Copper, Gold and Silver -Geological Evaluation -Supply and Demand Analysis -Mine Planning -Financial Analysis -Mineral Property Appraisal</p>	<p><b>Mesa Materials – Arizona</b> Sand and Gravel -Geological Evaluation -Supply and Demand Analysis -Mine Planning -Financial Analysis -Mineral Property Appraisal</p>
<p><b>Church of LDS – Arizona</b> Sand and Gravel -Geological Evaluation -Financial Analysis</p>	<p><b>Circle H Sand &amp; Gravel – Arizona</b> Sand and Gravel -Geological Evaluation -Permitting</p>
<p><b>Salt River Project – Arizona</b> Sand and Gravel -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>	<p><b>Dos Rios Materials – Arizona</b> Sand and Gravel -Geological Evaluation, Borehole Sampling and Testing -Supply and Demand Analysis -Permitting</p>
<p><b>Allied Concrete – Virginia</b> Lightweight Expanded Aggregate -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>	<p><b>National Bank – Arizona</b> Sand and Gravel -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>
<p><b>Arizona Gypsum – Arizona</b> Gypsum -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>	<p><b>Rinker Materials Sierra Vista – Arizona</b> Sand and Gravel -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal of Partial Interest</p>
<p><b>SOLITE – Virginia</b> Lightweight Expanded Aggregate -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>	<p><b>SunTrust – Virginia</b> Sand and Gravel -Geological Evaluation -Supply and Demand Analysis -Mineral Property Appraisal</p>
<p><b>Black Angus – Arizona</b> Sand and Gravel -Geological Evaluation</p>	<p><b>Boaz Mine – Arizona</b> Gold -Geological Evaluation, Borehole Sampling and Testing</p>

<b>Haydite – Ohio</b> Lightweight Expanded Aggregate <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>	<b>New West Materials – Arizona</b> Sand and Gravel <i>-Supply and Demand Analysis</i> <i>-Financial Analysis</i> <i>-Mineral Property Appraisal</i>
<b>Buckhorn Mine – Arizona</b> Gold <i>-Geological Evaluation &amp; Financial Analysis</i>	<b>East Lost Hills – California</b> Oil and Gas <i>-Geological Evaluation</i>
<b>City and Borough of Juneau – Alaska</b> Gold <i>-Geological Evaluation</i> <i>-Financial Analysis Worksheets</i>	<b>Granite Dells – Arizona</b> Sand and Gravel <i>-Geological Evaluation</i> <i>-Financial Analysis Worksheets</i>
<b>Twin Buttes Mine – Arizona</b> Copper <i>-Property Tax Consultation</i>	<b>Sunshine Concrete – Arizona</b> Sand and Gravel <i>-Geological Evaluation</i>
<b>Key Bank – Utah</b> Gypsum <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>	<b>Vistoso – Arizona</b> Sand and Gravel <i>-Geological Evaluation and Borehole Sampling</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Permitting</i>
<b>Martin Marietta – Michigan</b> Calcium Brine <i>-Geological Evaluation</i> <i>-Financial Analysis</i>	<b>Granite Dells – Arizona</b> Crushed Decomposed Granite <i>-Geological Evaluation</i> <i>-Mineral Property Appraisal</i>
<b>Minorca Mine – Minnesota</b> Taconite (Iron Ore) <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Partial Interest</i>	<b>American Red Cross – Texas</b> Natural Gas <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Partial Interest</i>
<b>Hogan Estate – California</b> Oil and Gas <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Partial Interest</i>	<b>Aggregate Products – California</b> Sand and Gravel <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>
<b>Congress Mine – Arizona</b> Crushed Stone & Decorative Granite Boulders <i>-Geological Evaluation</i> <i>-Mineral Property Appraisal</i>	<b>Saint Genevieve County Assessor – Missouri</b> Limestone Quarries & Cement Plant <i>-Geological Evaluation</i> <i>-Financial Analysis Worksheets</i>
<b>Arlington Canal District – Arizona</b> Sand and Gravel <i>-Geological Evaluation</i> <i>-Mineral Property Appraisal of Royalty Interest</i>	<b>Gold Remedy Mine – Arizona</b> Gold and Silver <i>-Geological Evaluation</i>
<b>Southfork Lease – Kentucky</b> Oil and Gas <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Economic Evaluation</i>	<b>Rock Production Technologies – Arizona</b> Gold, Silver and Copper <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i>
<b>WVSV Holdings – Arizona</b> Sand and Gravel <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Royalty Interest</i>	<b>RE Perry Co. – Arizona</b> Economic Analysis <i>-Net Present Value Worksheets</i>
<b>Arowe, Inc. – South Dakota &amp; Nebraska</b> Oil and Gas <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>	<b>PR Gypsum – Arizona</b> Gypsum <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>
<b>Morenci Copper Mine Mysie Claims – Arizona</b> Copper <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>	<b>Elberta Pit – Utah</b> Crushed Stone <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal</i>
<b>St. Francois County Assessor – Missouri</b> Quarries <i>-Geological Evaluation</i> <i>-Financial Analysis Worksheets</i>	<b>Yavapai County Assessor – Arizona</b> Quarries & Cement Plants <i>-Geological Evaluation</i> <i>-Financial Analysis Worksheets</i>

<b>Wildcat Silver – Arizona</b> Gold, Silver, Copper <i>-Research for potential mining targets</i>	<b>Augusta Resources – Arizona</b> Copper <i>-Property Tax Investigation</i>
<b>Gila Verde Feeders – Arizona</b> Sand and Gravel <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Royalty Interest</i>	<b>Melluzzo Stone – Arizona</b> Crushed Stone <i>-Geological Evaluation</i> <i>-Supply and Demand Analysis</i> <i>-Mineral Property Appraisal of Royalty Interest</i>