

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S
QUALIFICATIONS FOR THIS CONTRACT**

A. EXAMPLE PROJECT KEY NUMBER: **AML 16J Central Gas Hills Project**

B. TITLE AND LOCATION (*City and State*): **Gas Hills, Wyoming**

C. YEAR COMPLETED - PROFESSIONAL SERVICES: **2002**

D. YEAR COMPLETED - CONSTRUCTION (*If applicable*): **2002**

23a. PROJECT OWNER'S INFORMATION - PROJECT OWNER: **Wyoming AML**

23b. PROJECT OWNER'S INFORMATION - POINT OF CONTACT NAME: Bill Locke (*Barry Shelley, AML Project Officer no longer available*)

23c. PROJECT OWNER'S INFORMATION - POINT OF CONTACT TELEPHONE NUMBER: **307 335-6945**

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (*Include scope, size, and cost*): **Follows**

25. FIRMS FROM SECTION INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
BRS Inc.	Riverton, WY	Site Investigation, Design, CM

A brief Project description follows:

The Central Gas Hills Project comprised approximately 445 acres of intensely disturbed open pit mine lands located between two major reclamation areas completed by the local mineral and partial surface owner, Pathfinder Mines Corporation (PMC). Reclamation designs, planning and sequencing of construction was required to be compatible with PMC's reclamation plans and construction scheduling. Project coordination successfully avoided conflicts and accommodated the needs of all interested parties. Site investigation identified areas of unsuitable mine waste materials (radioactive and acid forming), as well as other mine waste materials, which were suitable as a plant growth medium. Design sequencing was developed in such a manner as to isolate unsuitable materials while preserving materials for final reclamation. This was accomplished with a minimal amount of temporary stockpiling. The final reclamation configuration provides for a diverse landscape, control of surface drainage to minimize erosion, and creates wetland values with a viable surface water impoundment. The project was phased to accommodate AML budgetary restraints and PMC reclamation scheduling. Construction was completed in 2002. The original cost estimate for the project was \$6,104,395.00. The final construction cost was \$5,938,656.90. Sufficient suitable material was salvaged for successful reclamation of the entire project. Engineering services were completed below budget.

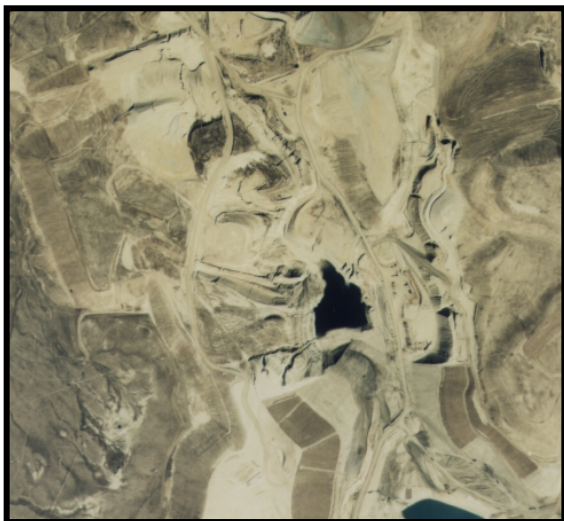
KEY PROJECT REQUIREMENTS:

- **Site investigation, design and construction management**
- **Public participation securing consents and approvals of**
 - o **WDEQ/LQD**
 - o **BLM**
 - o **Surface/mineral owner, Pathfinder Mines Corp. (PMC)**
- **Coordination with adjacent reclamation efforts by PMC**
- **Project sequencing to meet available funding and minimize costs**
- **Materials identification and handling**
- **Water Management**
- **Backfill of water impoundment to create stable foundation**
- **Construction of viable surface water impoundments and surface drainage controls**

PROJECT INNOVATIONS INCLUDE:

At the onset of the project it was thought that insufficient coversoil existed at the site to facilitate successful reclamation. BRS identified suitable plant growth materials within the mine spoils during the surface and subsurface materials investigation. Reclamation designs exploited the salvage and use of this material, over 600,000 cubic yards, for reclamation purposes.

Before Construction:



Over 400 acres on intensely disturbed mine lands. 400 foot highwalls above a ground water fed impoundment with elevated total dissolved solids, salts and metals. Little or no known topsoil resources were available for reclamation. Water in the impoundment was permitted for consumptive use for dust control and construction. Backfill was placed as to crowd the water to one side of the pit and eventually cover the pit floor. As the water impoundment was covered muck handling was necessary. Subsequent backfill above the saturated fill was compacted to minimizing settling and create a foundation for the eventual construction of a surface water impoundment.

During Construction:



Excavation



Pitting and Seeding

Completed Project:



Looking Southeast

Looking West