

8-1. Work By Firm or Joint Venture Which Best Illustrates Current Qualifications Relevant to this Project (List not more than 10 projects)

a. Project Name and Location	b. Nature of Firm's Responsibility	c. Owner's Name & Address and Project Manager's Name and Phone Number	d. Completion Date (actual or estimated)	e. Estimated Cost (in thousands)	
				Entire Project	Work for Which Firm Was Responsible
Lander Paleozoic Well Level II Water Supply Study	Paleozoic Aquifer Well Siting, Well Design, Drilling Oversight, Conceptual Design	Wyoming Water Development Commission Cheyenne, WY	December 2007 (est)	\$965	\$965

The Lander Level II Water Supply Study consisted of three phases: Phase I – the Paleozoic Aquifer well siting study; Phase II – exploration well construction; and Phase III – conceptual design and cost estimates. Several potential Paleozoic Aquifer well sites were identified during Phase I, one of which was selected as the site of the Lander Exploration Well. Phase II, which consisted of permitting, developing bid documents and selecting a drilling contractor, and drilling, constructing, and testing the Lander Exploration Well, was conducted during late fall and winter of 2003 and 2004. Because of the desire of the City of Lander to deepen the Lander Exploration Well to test the hydraulic properties of the Madison Limestone, Phase II has been amended to include additional drilling and construction services. Phase III will be completed by December, 2007.

WELL SITING STUDY

The major purpose of this Level II Water Supply Project was the drilling, construction, and testing of an exploration well completed in the Paleozoic Aquifer. The Phase I Paleozoic Aquifer well siting study identified eight potential well sites within the 400 square mile study area. The Tensleep Aquifer was identified as the target aquifer for the Lander Exploration Well based on water quantity and quality issues, as well as depth to the aquifer. As part of Phase II, WESTON revisited areas within the drainages of the Middle Fork of the Popo Agie River, Baldwin Creek, and Squaw Creek for considering potential well sites. WESTON also interviewed Lander City officials and local property owners regarding their interest and concerns regarding potential exploration well sites. Four potential exploration well sites were identified within the three drainages using the same criteria employed in the formal well siting study.

GROUNDWATER EXPLORATION PROGRAM

The Lander Exploration Well was drilled to a total depth of 2,545 feet during the fall and winter of 2003. The well was pump tested at a rate of 325 gpm for a period of seven days. The quality of the water developed by the well is excellent, with a TDS concentration of 190 mg/L, which is well below the EPA-recommended concentration of 500 mg/L. None of the analyzed constituents exceed either primary or secondary standards set by EPA.

Although the Lander Level II Water Supply Project successfully sited, drilled, and constructed an exploration well completed in the Tensleep Sandstone, the well is not capable of yielding large enough quantities of water to meet Lander's goal. A decision was made to install a liner assembly in the Lander Exploration Well and drill through the Madison Limestone to ascertain the productivity of that formation. If productivity of the Madison Limestone does not meet expectations, conduct an acid fracturing program designed to enhance the local permeability of the Madison Limestone. Due to the lack of bidders, WESTON contracting services was selected to conduct the well deepening project. This phase will commence during February of 2007.

