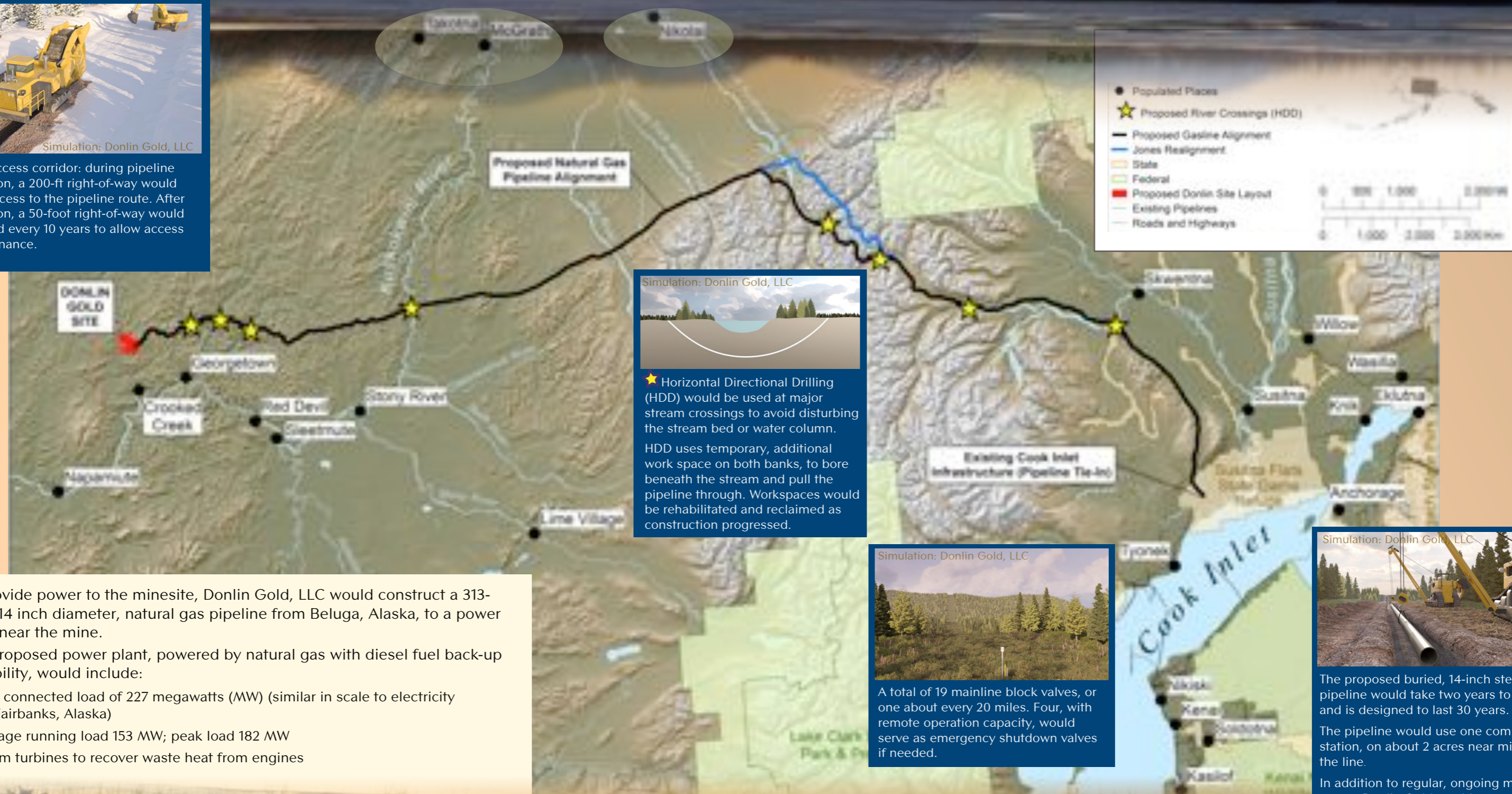


Donlin Gold Project EIS - Pipeline & Power



Simulation: Donlin Gold, LLC

Pipeline access corridor: during pipeline construction, a 200-ft right-of-way would provide access to the pipeline route. After construction, a 50-foot right-of-way would be brushed every 10 years to allow access for maintenance.



Simulation: Donlin Gold, LLC

★ Horizontal Directional Drilling (HDD) would be used at major stream crossings to avoid disturbing the stream bed or water column. HDD uses temporary, additional work space on both banks, to bore beneath the stream and pull the pipeline through. Workspaces would be rehabilitated and reclaimed as construction progressed.



Simulation: Donlin Gold, LLC

A total of 19 mainline block valves, or one about every 20 miles. Four, with remote operation capacity, would serve as emergency shutdown valves if needed.



Simulation: Donlin Gold, LLC

The proposed buried, 14-inch steel pipeline would take two years to build, and is designed to last 30 years. The pipeline would use one compressor station, on about 2 acres near mile 5 of the line. In addition to regular, ongoing maintenance, Donlin Gold would use cathodic protection, leak detection, and supervisory control to protect fish, wildlife, and habitat.

To provide power to the minesite, Donlin Gold, LLC would construct a 313-mile, 14 inch diameter, natural gas pipeline from Beluga, Alaska, to a power plant near the mine. The proposed power plant, powered by natural gas with diesel fuel back-up capability, would include:

- Total connected load of 227 megawatts (MW) (similar in scale to electricity for Fairbanks, Alaska)
- Average running load 153 MW; peak load 182 MW
- Steam turbines to recover waste heat from engines



photo: Dave Cannon