Newmont 3D Drilling QAQC Visualization

Proposal for Colorado School of Mines MCS Field Session, Summer 2016

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Introduction

Newmont as a leading exploration and gold mining company and would like to develop a web based tool to visualize the quality of downhole survey measurements, sourced from our drill programs. The tool would read data from a web service and then graphically display it using the **three.js JavaScript** library. Through visualization certain validation rules can then be checked such as "does a drilled hole follow the planned hole". This tool will extend our existing web 3D drill hole application.

Objectives

- Use of JavaScript and the three.js library to create and display defined error buffers around planned and drilled holes.
- Find and identify geometric anomalies with the drilling, such as drill trace deviation or self-overlaps.
- Establish the project on GitHub with an appropriate level of documentation.

Work Environment

The team can manage and work on the project from anywhere, but anticipate a number of face-to-face meetings and frequent electronic communication.