Newmont QGIS Cross-Section Plugin

Proposal for Colorado School of Mines MCS Field Session, Summer 2015

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Introduction

QGIS is a leading Open Source Geographic Information System (**mapping and visualization**) that is supported by a strong, well organized developer community that add to the core system and contribute a wide variety of task-specific plugins. Utilizing the plugin architecture Newmont would like to develop a tool to generate geologic cross-sections showing exploration drill results. The plugin can be written in **C++ or Python** and may use portions of the existing Newmont code base.

Objectives

- Learn about QGIS and plugin development.
- Develop cross-section plugin with basic plotting capabilities including visualization of drillholes with downhole geochemistry and geologic attributes.
- If time permits add advanced capabilities. For example plotting multiple cross-sections in batch mode or printed map layout including a reference grid, title block, and data specific legends.

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. Team size 3-4.