CBM in the vicinity of active mining areas

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In areas close to operating mines, optional CBM operations meet several advantages. Any consideration about CBM operations close to active or ex-mining areas can rely on a lot of existing knowledge from the nearby mine regarding

- Geological data: seam thickness and structure, rock structure and composition, overburden setup
- Structural data: fault system, fault style,
- Stratigraphic informations: seam and adjacent rock stratigraphic identification
- Petrographic data: coal composition data
- Coal quality data: heating values, volatile matter, maturity, gas contents

which approximately correspond to the respective data sets of the adjacent mine. As well and of importance for drilling issues the knowledge from former exploration measure can be adapted. Permeability is not transferable between mined and un-mined areas due to higher stream for gaseous and liquid matter in mining areas as a result of mining induced rock disaggregation. However, the vicinity permits the option of drilling operations for CBM purposes from the open subsurface architecture.

Experiences in the USA and in India document the application of CBM projects for coal mine degassing: in mining fields adjacent to future coal mining, the gas content is severely reduced by CBM measures prior to mining. As a result of that, subsequent to CBM operations a mine can be run at reduced gas content to be emitted which means higher mine safety. At least the production potential will be increased as e.g. the gas alert driven power interruptions will be reduced.