

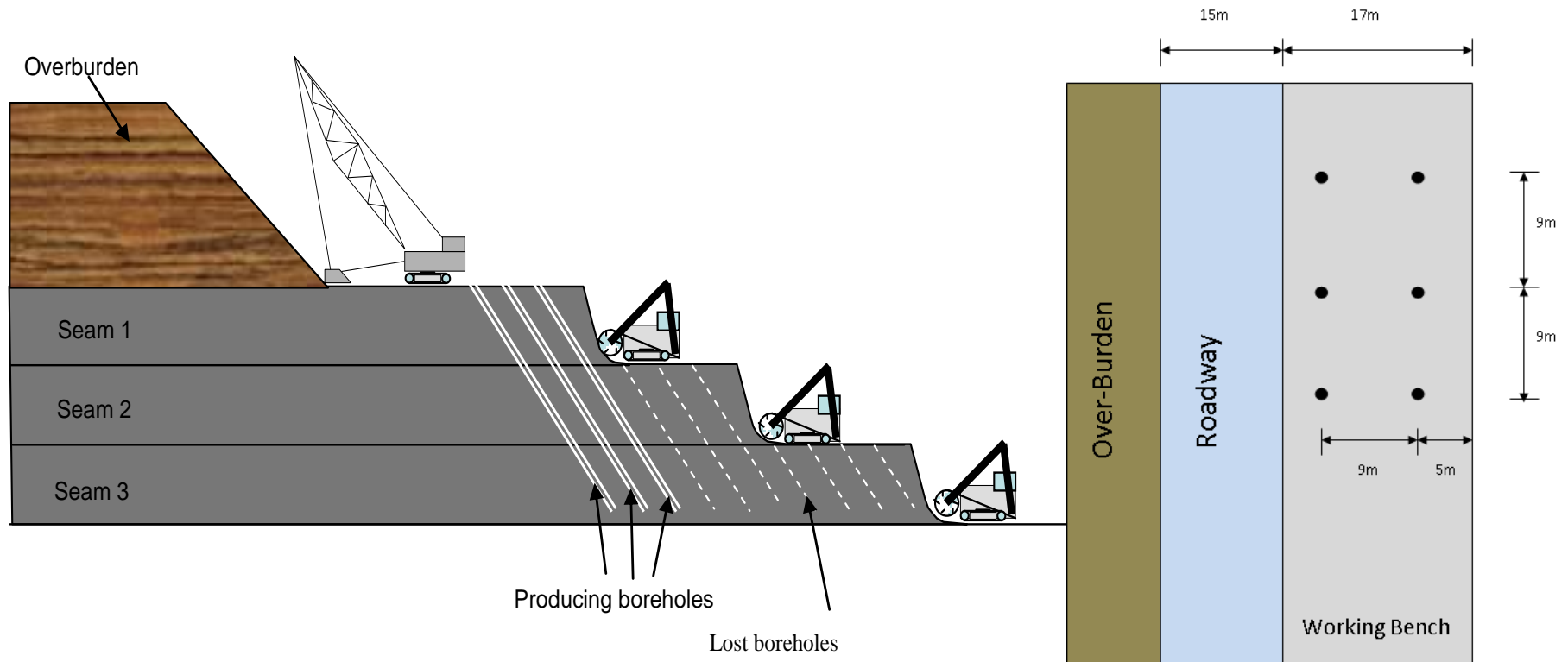
# ***Possible SMM Experimental Capture in Conditions of Kazakhstan Pits***

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**Turning Coal Mine Methane into an Asset: Implementing Best Practices and Policies  
25<sup>th</sup> World Mining Congress, 20 June 2018, Astana, Kazakhstan**

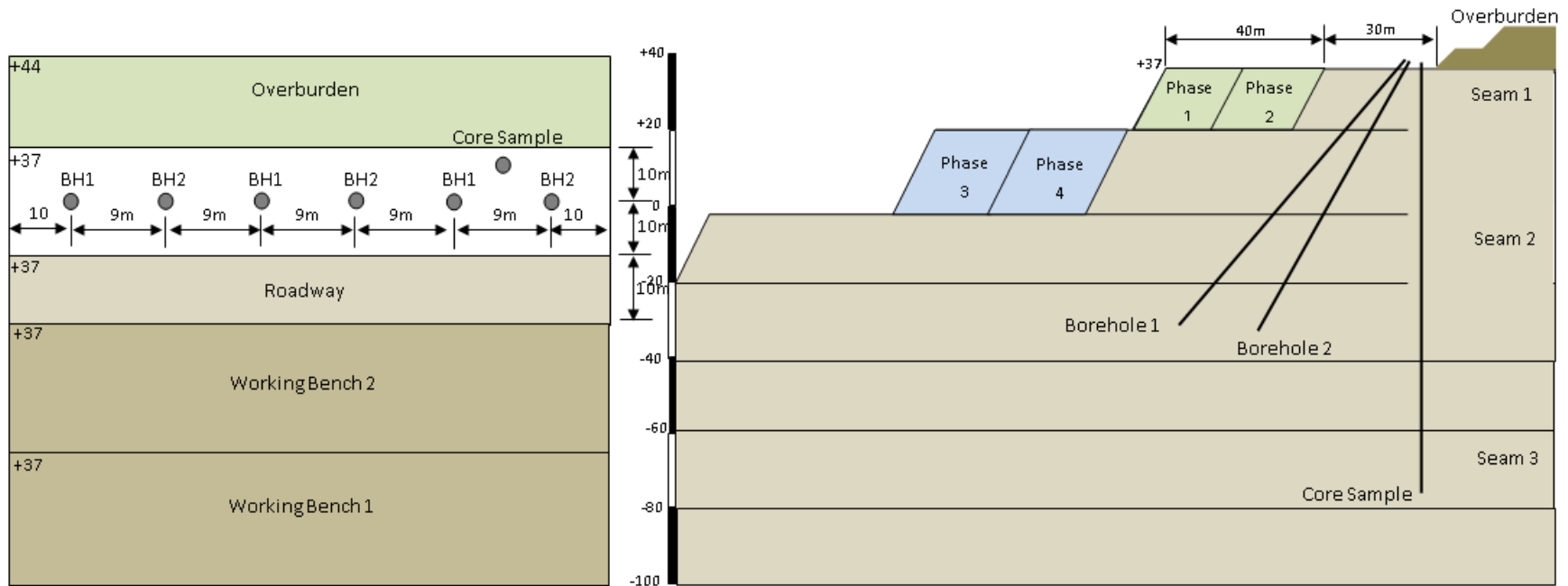
# Bogatyr open pit project concept:

Use of vertical and horizontal distress to capture mine gas prior to coal extraction:



# Proposed project layout:

Co-ordination with mining operations:



# Key technical obstacles & emission opportunities

- Coal quality and gas content variations;
- Specifics of mining operation technique (drill/blust...);
- Interference with mining operations while capture, transportation and use of minegas;
- Huge calculated emission of CH<sub>4</sub> (800 – 1000 Mm<sup>3</sup> by KazNIEC) but lack of verification practice;

