

Hazen International Case Studies

DEEP GUIDE / HORIZONTAL POTASH MINING INTERSECT

Our Canadian customer had unsuccessfully attempted to intersect a horizontal well in a potash formation with another operator at a TVD of ~825m. Hazen International was selected to provide guidance services to intersect this previously drilled horizontal well.

Hazen's proprietary Deep Guide™ tool was initially deployed on a tractor, but due to excessive hole washout, the tractor was unable to reach bottom. The Deep Guide tool was pumped down on drillpipe and successfully positioned at ~2700m MD. Drilling commenced, proximity data was collected and was used to guide the drilling assembly to intersect the horizontal well on the first attempt. This was achieved with the Deep Guide tool positioned in the target well and the rotating magnet sub positioned between the bit and mud motor. The customer was very pleased with the at-bit guidance service as the target well was intersected on the first pass. The customer plans to utilize Hazen to plan and provide the Deep Guide steering services for the next pad.

