

Precision intersect on first attempt marks first successful well for new potash mine.

CAN, Manitoba | PADCOM | Solution Mine | Horizontal loop intersect | 2022

Using the Deep Guide ranging tools Hazen was able to overcome significant washout and other hole challenges to intersect the toes of two horizontal wells allowing the customer to meet a critical milestone for their mines first producing wells.

Challenge:

Customer was facing a short timeline to meet a critical milestone on their first production wells. At ~825m vertical depth and over 2km measured depth the previous contractor was unable to complete a toe-to-toe intersect of the well pairs. After the unsuccessful attempts Hazen International were selected to provide guidance services on the previously drilled wells.

Solution: Deep Guide with MagSub ranging services

The Hazen Deep Guide sensor was deployed into the target well and a 4.75" (121mm) magnet sub was mounted on the drilling BHA directly behind the bit.

Result:

First deployment using a tractor to position the sensor in the target well was unsuccessful due to the significant washout at the heel impeding tractor progress and inability to reach bottom.

The Deep Guide tool was pumped down on drill pipe and successfully positioned at ~2700m MD. Drilling commenced, proximity data was collected to guide the drilling assembly to intersect the horizontal well on the first attempt. 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 future pads.



Deep Guide and MagSub Ranging Services

