

## CASE HISTORY

# gyroMWD ELIMINATES NEED FOR WIRELINE IN COMPLEX MINING OPERATION

### APPLICATION

Mining,  
Freeze Wall Drilling

### TECHNOLOGY

gyroMWD, Falcon EM,  
Wireline Keeper Gyro

### LOCATION

Jansen, Saskatchewan,  
Canada

### CUSTOMER CHALLENGE

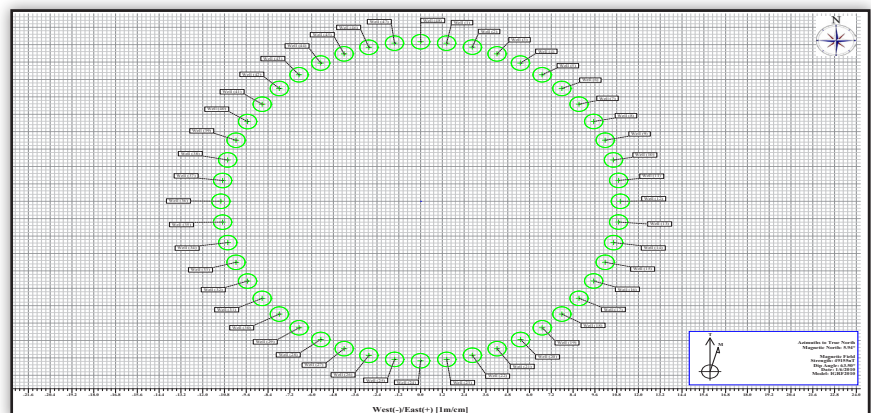
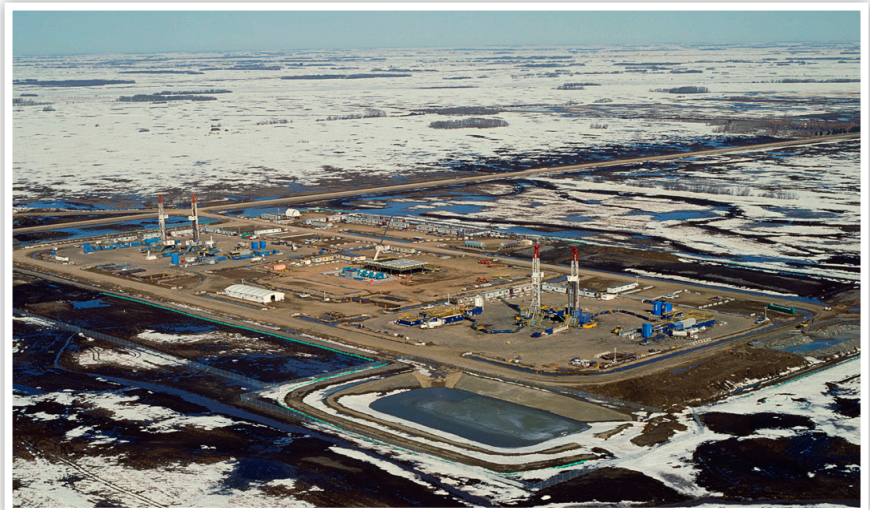
The customer required that two sets of 40 wells be evenly drilled around the circumference to two 18m circles. The finished wells were to be frozen to form the wall of a mine shaft. This required the wells to be drilled approximately one meter apart along a very precise path. Survey tolerances were very tight but magnetic interference, due to the close spacing, prevented standard magnetic MWD tools from being used.

### SCIENTIFIC SOLUTION

Scientific Drilling's gyroMWD was selected for its unique ability to provide continuous True North or Gyro tool face (GyTF). Continuous GyTF allows real-time motor orientation at low angles where the standard magnetic MWD would be rendered useless by the magnetic interference. The gyroMWD space stabilized platform provides a very accurate motor orientation that is near errorless allowing for precise directional control at all times regardless of magnetic interference levels. Casing surveys, run on wireline, were completed at the end of each well to confirm the gyroMWD data.

### CUSTOMER VALUE

SDI's gyroMWD provided continuous real-time motor orientation so the wells could be drilled precisely despite the presence of magnetic interference. Utilization of the high accuracy gyroMWD system eliminated the need to cease drilling operations to run wireline. This allowed the customer to continue with little disruptions to operation - delivering significant time and cost savings.



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