

## CASE HISTORY

# SCI-DRIVER™ REDUCES DRILLING TIME IN COAL SEAM & RECOVERS RESERVES

### APPLICATION

Coal Seam Gas (CSG)

### TECHNOLOGY

Sci-Driver™ - Near Bit Smart Motor,  
Falcon EM MWD

### LOCATION

Northern Appalachia, Pennsylvania

### CUSTOMER CHALLENGE

The strata of this part of Appalachia is not suitable for vertical fracturing techniques. The challenge therefore, was to drill horizontally in thin, highly gaseous but low permeability coal seams. Improved drilling efficiencies were needed to provide cost-effective recovery of the gas.

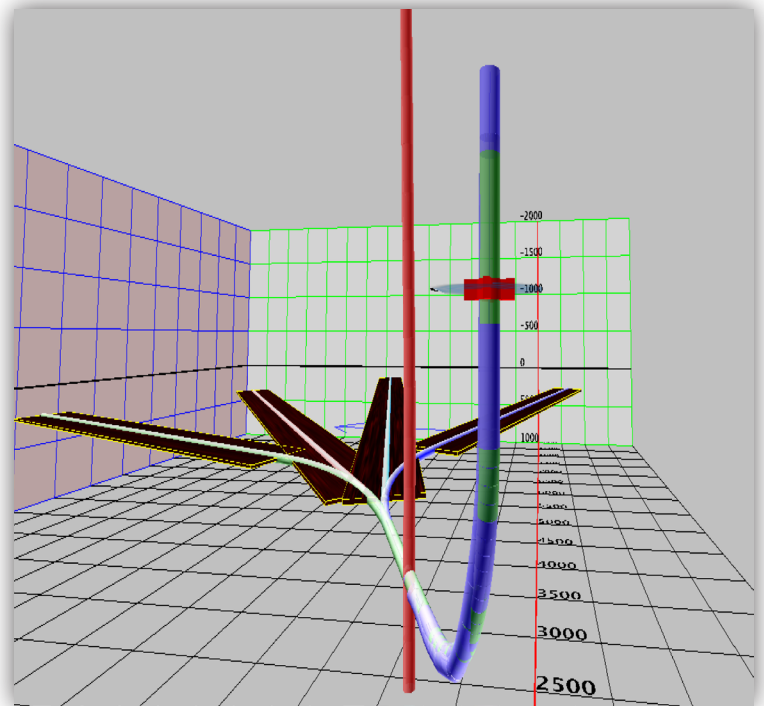
### CUSTOMER VALUE

The operator was able to drill seams as small as one foot thick while drastically reduce the drilling time, resulting in cost-effective gas recovery and potential reserves on coal seams previously thought to be unrecoverable.

### SCIENTIFIC SOLUTION

Scientific Drilling's 4<sup>3/4</sup>" Sci-Driver™ was designed with the Gamma and Inclination sensors on the outer body of the drill motor allowing better depths of investigation and therefore the ability to stay continuously in the coal seam.

In conjunction with SDI's Falcon EM, allowing continuous data flow from downhole with an air/mist combination to avoid damaging or clogging of the cleats and fracture system, SDI was able to drill four 3,000 ft laterals from one main borehole.



Quad-lateral Well Design

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