

CASE HISTORY

SDI'S GYRO BATCH SURVEYS OFFER SIGNIFICANT TIME AND COST SAVINGS

APPLICATION

Pad Drilling (Multi-Well)

TECHNOLOGY

Wireline Keeper Gyro

LOCATION

Pennsylvania
(USA)

CUSTOMER CHALLENGE

The operator was rotary drilling the top hole to 1,000 ft without surveys, before setting surface casing. This was completed in a batch drilling operation using a top hole rig. Anti-collision was a major concern in the intermediate hole section due to well spacing as close as 15 ft. Due to the tight spacing, a gyro survey was required prior to drilling ahead after the curve and lateral rig was moved in; an additional two hours of rig time for each well surveyed.

SCIENTIFIC SOLUTION

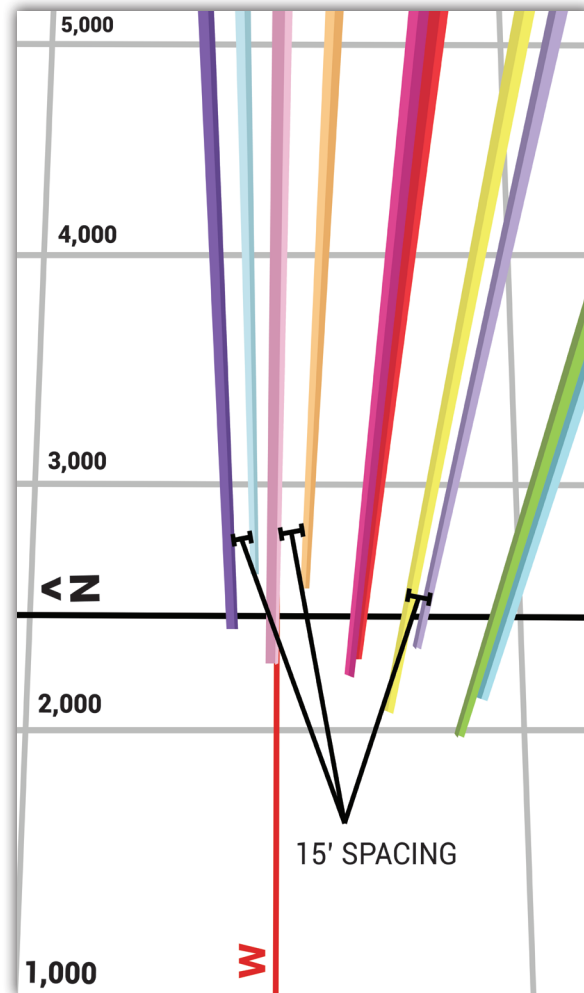
Scientific Drilling deployed the Wireline Keeper Gyro, utilizing the Casing Centroller System. This service was conducted with a SDI wireline unit, eliminating the need for a drilling rig. SDI's centroller running gear provided precision alignment with the wellbore, and ensured smooth operations while running at high speeds.

Using the Keeper's proprietary low angle high speed mode enabled wireline running speeds up to 300 (ft/min) in a continuous survey mode. This reduced the survey time for each well to less than 45 minutes (a 63% reduction). SDI's proprietary software provided continuous feedback on tool performance ensuring the survey met the anti-collision needs of the customer, and conformed to our ISCWSA compliant instrument performance model.

According to the pre-job planning requirements, SDI mobilized two survey teams and additional equipment. This allowed one team to ensure all tools were set up and calibrated for the next well while the current well was being surveyed, saving additional time.

CUSTOMER VALUE

Batch surveying all 10 wells in less than 12 hours saved the customer 20 hours of rig time and significantly reduced the cost per survey. The operator stated that the SDI solution resulted in an estimated \$55,000 reduction in operating costs, equating to more than 50% in total savings. Due to this overall success, they intend to utilize SDI's surveying solution on future pad drilling projects.



PAD SECTION
VISUALIZATION

The survey image was taken from bottom hole looking east showcasing the 10 wells surveyed in 1 day.



WIRELINE
KEEPER GYRO

3D Render of SDI's gyro surveying tool