

Southland Case Study

Well Plat and Pad Design with WWC Land Survey

What was the client's issue presented to WWC?

Southland had purchased a new oil and gas field in Southern Wyoming and needed plats created and pads designed, according to a tight timeline in order to stay ahead of their drilling schedule.

How did WWC brainstorm and collaborate with the client to find a solution?

WWC coordinated with its multiple offices in order to meet the client's needs according to their timeline. WWC tracked the project closely and collaborated with the customer daily to provide project tracking information, and to mobilize crews as the scope changed often as dictated by the client's drill-schedule and priority.

What was the solution chosen by WWC?

To maximize efficiency, WWC used a drone to collect topographic data for the well pad and road designs. Use of the drone allowed collection of larger data sets than that of conventional land-surveying methods. This increased design flexibility, as plans often had to be changed on the fly due to the environmental constraint. Use of the drone provided significantly larger design windows, thus allowing the client to request design changes and pad relocation without additional surveying efforts.

Why did WWC choose this solution?

Use of the drone to collect topo data allowed the client to alter the pad locations without additional surveying field work because the drone allowed collection of blanket topographic surveys.

What was the final result of the completed project?

Through multiple design iterations, WWC was able to provide the client with pad designs without conducting additional survey efforts within a much larger design window than traditional survey methods would have allowed.

How did the chosen solution save the client time, energy, or money?

In addition to the surplus of data collected for use in design, the cost of relocating of a pad within the design window was significantly reduced due to not needing to send surveyors out

multiple times upon design changes.

Why did WWC feel the solution chosen was the best choice?

WWC maintains close contact with the client throughout the surveying and design process so that the client needs can be met according to even the most stringent of schedules.