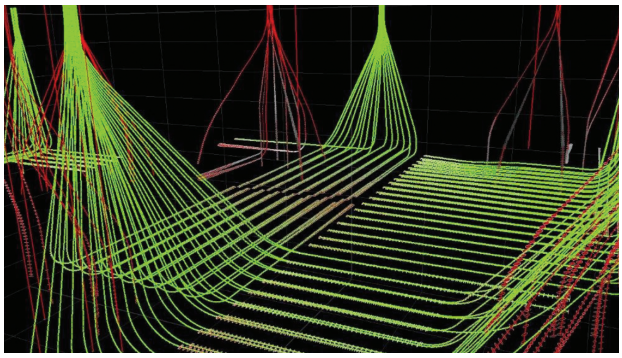
CASE STUDY PARADIGM

Generating a Full Field Development Plan in a Highly Restricted Urban Drilling Location. In partnership with Paradigm for Mineral Resources.

THE CHALLENGE

This project was located in a highly restricted urban environment directly under the city of Greely, CO. The development field had limited surface drilling locations to achieve optimal acreage production.



THE APPROACH

To effectively access the target gas condensate reserves, IPT proposed to design long horizontal wells (up to 17,000' MD) with significant offsets (up to 4,500') before entering the lateral seciton. In-depth engineering analysis in string design and Torque/Drag analysis was needed to avoid string failures and ensure drillability.

Execution of accurate trajectory planning, survey error modeling, clearance analysis, and visualization would be crucial to avoid failures and potential wellbore collisions.

THE SOLUTION

The IPT Team leveraged our vendor network for premier solutions to ensure successful execution. The Paradigm Sysdrill application was used for comprehensive well planning, survey management, and drilling engineering analysis. IPT was able to rapidly design multiple pad patterns that fulfilled all the requirements of anti-collision and reservoir placement.

THE RESULTS

IPT succesfully demonstrated engineering feasability for the client's acreage despite significant challenges in the area. IPT and Mineral Resources have since successfully drilled and completed the project.

10 Sq. Miles of Pay-Zone Under the City of Greely, CO

3 Dimensional Wellbore Planning

0 Abandoned Wells

Paradigm®

MINERAL RESOURCES, INC.

ABOUT IPT

IPT Well Solutions is an independent engineering consulting and wellsite supervision firm in business for 30 years. We serve clients in oil and gas, municipal and industrial wastewater, and carbon capture & storage.

We provide comprehensive engineering and field supervision services, leveraging our experience with thousands of oil and gas wells across the major basins and hundreds of wastewater disposal wells.

No matter what issues you are facing, IPT Well Solutions understands what it takes to maximize your success.