

Fusion® Saves Operator Costly Trip and Hours of Drilling

8-1/2" F1616G2U, Lily Field, British Columbia, Canada

CHALLENGE: To drill the 8-1/2" vertical and build section in the Lily Field with a single bit while improving ROP. This section typically requires two diamond impregnated bits to drill the complete interval at an average of 2.5 m/hr (8.2 ft/hr).

SOLUTION: In this challenging application, the Varel team designed an application specific 8-1/2" F1616G2U Fusion impregnated bit. Fusion bits drill faster and last longer through hard and abrasive formations due to the effective geometry of the HIP segments tailored to the application and formation. Varel's strict diamond selection process ensures each area of the bit utilizes diamonds of similar size and quantity. The diamonds are then pelletized to eliminate aggregation and low concentration areas resulting in an even distribution of diamond throughout the bit.

RESULTS: Varel's Fusion bit drilled faster and longer than any other bit on the well pad, requiring only one bit to drill the section. By drilling 204 m (669 ft) at 3 m/hr (9.8 ft/hr), Varel not only improved the average ROP by 20%, but also managed to save the operator a costly trip and second bit.



20% ROP Improvement
Costly Trip Avoided
Hours of Drilling Saved

