

# QUICK NOTES

## SINOPEC 3-WELL ELMWORTH MONTNEY PAD

In May 2022, Sinopec Daylight Energy Ltd. completed a three-well pad in the Montney formation in Alberta, Canada. As single point entry multistage lateral completions have proven to be successful in the area, the Stage Completions Bowhead system was used in all three wellbores.

### BOWHEAD SYSTEM

#### BY THE NUMBERS

189

Bowhead Valves



100%

Valve-Opening Rate

13,254 T  
of Proppant Pumped



Maximum Flow Rate of  
**10 m<sup>3</sup>/min**

#### DESIGN DETAILS

**10-m<sup>3</sup>/min slickwater fracs** were planned for the completion of **9290 m** of combined lateral with **~40-50 m stage spacing**. Proppant design was based on **1.4 T/m** at a maximum concentration of **500 kg/m<sup>3</sup>**. **57, 63 & 69 Bowhead valves** and one toe port were installed in each of the **114.3 mm** liners, totalling **192 stages**.

#### JOB EXECUTION

The Bowhead valves operated without incident and were deemed an operational success allowing the fracs to be executed as planned. Individually profiled collets and dissolvable balls were launched in each well (between fracs) and successfully opened each corresponding valve.

All three wells were fraced in under 10.875 days, including time between wells. Crews were able to reach an **average pump time efficiency of 21.2 hours per day**.

**BOWHEAD** is a multistage single point entry frac system offering a near limitless number of fracs per well. Cemented or uncemented, this system allows operators to target optimal spacing and distribution while providing unprecedented confidence in valve-opening accuracy.

01

#### Single Point Entry

A cementable multi-stage single point entry frac valve system offering near limitless fracs.

02

#### Continual Pumping

Individually profiled collets pumped with dissolvable balls result in continual pumping.

03

#### Safer, Smaller

Large-bore, fluid-conveyed collets eliminate the need for wireline, coiled tubing and perforating guns at the wellsite.

