

## Case study - Vertechs CHAMELEON™ Dissolvable Plug

### *Dissolved in ultra-low temperature, RIH with tubing, Saved operational cost*

CHAMELEON™ dissolvable plug is the most versatile product amongst VERTECHS' dissolvable product line. It can be customized to either a bullhead or a flow-thru or ball-in-place design. Its dual slips hold high differential pressure from both above and below. The game-changing CHAMELEON™ dissolvable plug, manufactured with proprietary fully dissolvable materials, will dissolve downhole resulting in full-bore access.

**Date & Location:** October 2019; North China's Coal Bed Methane (CBM) Block

**Challenges Encountered:** The end user was looking at improving well economics and reducing operational risk. Due to the low temperature (20 - 30 Deg C) and low salinity, the exploration of the CBM project was extremely challenging for dissolvables.

**Solution:** VERTECHS CHAMELEON™ fully dissolvable plug with its successful track record of (> 12,000 runs worldwide) till date was chosen and implemented at 13 wells in North China's Coal bed methane block, RIH with jointed tubing on workover rig for the first time.

**Outcome:** The CHAMELEON™ demonstrated successful performance downhole, was set flawlessly, and was able to maintain stable pressure holding during the frac operation. The CHAMELEON™ dissolved thoroughly in 2 weeks.

#### Operation Data

Well No.	Casing	Plug OD (in)	TD (ft)	BHT (°F)	Chloride Concentration (mg/L)
XX 56-1	5.5", 20ppf, N80	4.37	1984	68-86	1170
XX 62-1	5.5", 20ppf, N80	4.37	2476	68-86	950
XX 67-1	5.5", 20ppf, N80	4.37	3395	68-86	960

#### Application Advantages

- Dissolved completely in ultra-low temperature (20-30°C), achieving full-bore access
- Reduced operational risk compared to conventional drillable plugs in complex situations downhole
- Apart from wireline and coiled tubing, it can also be RIH with jointed tubing workover rig.
- Stable pressure holding for 24 hours after setting

