

## Case study– VERTECHS Metal Seal Dissolvable Frac Plug



*Compact Design, Short Length, Larger inner Diameter and Full metal structure without rubber component.*

As the third-generation Vertechs dissolvable products, WIZARD Metal Seal Dissolvable Frac Plug is a game-changing design in Vertechs dissolvable product family. Without rubber component, the total dissolution time of plug is shortened by 40%, and the pressure rating increases to 15,000psi with robust metal seal component introduced.

In November 2019, WIZARD metal seal dissolvable frac plug completed the first application in Southwest China Shale Gas Block, then total 200 sets have been successfully set. The frac plug was set successfully downhole, offered a robust and consistent performance, and met customer needs for multiple harsh frac pressure cycles during the operations.



### Operational Data

Well No.	Casing	Plug OD (in)	TD (ft)	BHT (°F)	Max. Treating Pressure (psi)
XX H1-4	5.5", 26.8ppf, Q-125	4.06	16,404	222.8	16,244
XX H1-8	5.5", 26.8ppf, Q-125	4.06	18,898	262.4	16,969

### Application Advantages

- *In comparison with a conventional plug, the length of WIZARD MS after setting was reduced to 6.50" (60% reduction in length); the inner diameter was increased to 2.36" (70% enhancement);*
- Shorter total dissolution time, enhanced pumping capacity, effective solution to achieve full-bore access;
- Large inner diameter assists flowback downhole, resulting in efficient production time;
- Hold pressure up to 24 hours after setting.

