



Weatherford®

REAL RESULTS

Fraxis® Annulus Swellable Packers Isolate 28 Zones for Fracturing Operations in Difficult Bakken Shale Play

Objectives

- Increase the number of stimulation points and packers to provide more effective reservoir drainage in a 10,000 ft (3,048 m) true vertical depth (TVD) × 19,000 ft (5,791 m) measured depth (MD) well in the Bakken field.
- Install a liner assembly for future multizonal plug and perforation fracturing operations.

Results

- Weatherford's *Fraxis* annulus swellable packers (ASPs) were selected and deployed in 4 1/2-in. × 5.75-in. element OD configuration on 11.6-lb/ft L80 casing mandrels.
- A total of 27 *Fraxis* ASPs were successfully deployed throughout 28 zones to 19,248 ft (5,867 m) MD in a single trip.

Value to Client

- The successful deployment of *Fraxis* ASPs enabled the operator to gain isolation of 28 zones for plug and perforation fracture stimulation operations.
- The slim, compact length (five-ft element) of the *Fraxis* packers with their 5,000 psi (34.47 MPa) rating enabled the operator to complete the well in a single trip through the tight horizontal section without lost time.

Weatherford's *Fraxis* packers are designed for the challenges and rigors of high-performance frac isolation. The *Fraxis* packer's high-strength elastomers and extrusion-control backup systems, which enable swellable elements, achieve high-differential pressure ratings in overgauged hole sizes. The *Fraxis* series packer can also accommodate downhole temperature changes experienced while pumping frac fluids.



Location

Williston, North Dakota, USA
Rocky Mountain District

Formation

Bakken Shale

Well Type

Horizontal oil

Rig

Angel

Hole Size

6 in.

Casing Type

4 1/2-in., 11.6 lb/ft, L80 LTC

Well Depth

19,248 ft (5,867 m) MD

Products/Services

Fraxis ASPs

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