

IntegraLine™ System With 4 1/2-in. SwageSet Packer Achieves Zonal Isolation in Frac Application for Major Operator

Objectives

- Reach total depth and cement the liner.
- Effectively isolate the liner top.
- Achieve zonal isolation in the frac application.

Our Approach

- The Weatherford reamer shoe was used to thoroughly prepare the wellbore for liner installation.
- Weatherford provided the operator a liner system comprised of a SwageSet polished bore receptacle (PBR), 4 1/2-in. SwageSet packer, premium hydraulic rotating extreme IntegraLine R liner hanger, and a WLCS landing collar. The liner was run to a depth of 15,419 ft (4,700 m). A setting ball was pumped to set the hanger with 2,610 psi (18 MPa) and to shear the hydraulic lock on the model R running tool.
- The running tools were released with right-hand rotation and cementing operations were conducted using the SWP wiper plug. Good returns were seen at surface.
- The 4 1/2-in. SwageSet packer was set with 65,000 lb (29,484 kg).
- The running tools were easily retrieved.
- The WTBSS seal stem was landed into the PBR, and pressure-integrity of the system was confirmed.

Value to Client

- The Weatherford IntegraLine system—including the SwageSet PBR, SwageSet packer, and IntegraLine R hanger—and WLCS liner equipment were run to total depth without incurring nonproductive time.
- The 4 1/2-in. SwageSet packer established proper zonal isolation from the shoe to the liner top without safety or environmental incidents.
- The first installation of the 4 1/2-in. SwageSet packer for this major operator provided a reliable, high-integrity seal that enabled stimulation and production operations to commence as planned.



A 4 1/2-in. SwageSet liner-top packer was successfully and efficiently run and set in an onshore well in Canada for the first time. The reliable, ISO 14310/API 11D1-qualified packer provided zonal isolation at the liner top, which enabled stimulation and production operations to occur as initially planned.

LOCATION

Alberta, Canada

WELL TYPE

Onshore, gas and condensate production

WELL DEPTH

15,419 ft (4,700 m)

CASING SIZE AND TYPE

7-in., 35.0-lb/ft L-80

LINER SIZE AND TYPE

4 1/2-in., 15.1-lb/ft P-110

TOP OF LINER

9,514 ft (2,900 m)

PRODUCTS/SERVICES

- IntegraLine liner system
 - SwageSet PBR tieback
 - SwageSet liner-top packer
 - IntegraLine R liner hanger
- SWP wiper plug
- WLCS landing collar
- WDSL dart
- Dual-valve float collar
- Reamer shoe

