

SLICKLINE SERVICES

High-expansion gauge hanger

Integrated cased hole through-tubing services

FEATURES

- Slow controlled, soft set for equal force distribution, self-centralizing
- Allows a greater flow area than other hangers in the industry
- Debris- and scale-tolerant
- Optimum bidirectional slip contact allowing high load capacity
- Slip design optimizes setting force and minimizes damage to tubing
- Able to be set in multiple -weight casings, one size for multiple-weight casings

BENEFITS

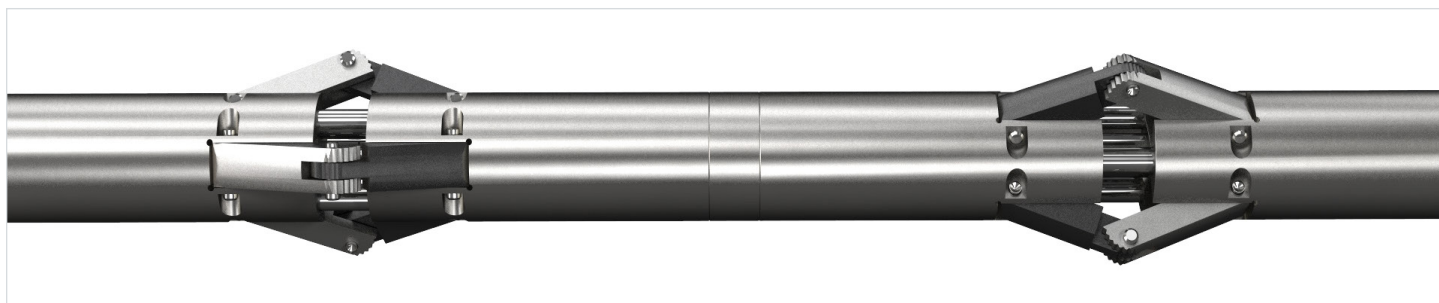
- Soft set with Halliburton's non-explosive Downhole Power Unit (DPU®) tool
- Slickline retrievable
- Can be run on slickline, e-line, or coiled tubing
- Reliability and design based on proven through-tubing bridge-plug technology
- Easily field redressable
- Streamlined design maximizes flow area
- Minimal restrictions increase quality of data collected while flowing or injecting

The Halliburton through-tubing, retrievable High-Expansion Gauge Hanger allows memory gauges, fluid samplers, and other downhole devices to be securely anchored in the wellbore at the reservoir while using conventional slickline methods for setting and retrieving. The slim design allows it to be deployed through smaller completion tubing and restrictions to be set in liners/casings with a larger ID.

Case history

At a customer's location, a set of bottomhole pressure gauges attached to the Halliburton 4.5-in. high-expansion gauge hanger was set using a slickline DPU tool at 11,970 ft (3,649 m). The gauges were put through a series of production tests over a 22-day period up to: 4,485-psi (30.9-MPa) flowing pressure, 29.7-million standard cubic feet per day on a $3\frac{3}{4}$ -in. choke with 3.8 percent CO₂. After all the tests were concluded, Halliburton slickline was deployed to the location, which pulled the gauges with no trouble, and the bottomhole pressure gauges were downloaded.





HAL3775

HIGH-EXPANSION GAUGE HANGER

Tubing Size	2.875 in.	3.5 in.	4.5 in.	5.5 in.	7.0 in.
Part Number	102156040	102156043	101901894	102020461	102023836
Part Number	146GHA1528	146GHA1535	146GHA1800	146GHA1855	146GHA1870
Tubing Weight lb (kg)	6.4 to 9.5 (2.9 to 4.3)	9.2 to 10.3 (4.2 to 4.7)	11.6 to 15.1 (5.3 to 6.9)	15.5 to 23 (7.0 to 10.4)	23 to 32 (10.4 to 14.5)
Outside Diameter	1.5 in. (38.1 mm)	1.5 in. (38.1 mm)	1.8 in. (45.7 mm)	1.8 in. (45.7 mm)	1.8 in. (45.7 mm)
Total Length	42.19 in. (107.16 cm)	42.59 in. (108.18 cm)	40.96 in. (104.04 cm)	43.95 in. (111.63 cm)	48.76 in. (123.85 cm)
Tool Weight	18 lb (8.2 kg)	18 lb (8.2 kg)	24 lb (10.9 kg)	26 lb (11.8 kg)	29 lb (13.2 kg)
Setting Force	10,000 lbf (44.48 kN)	10,000 lbf (44.48 kN)	10,000 lbf (44.48 kN)	10,000 lbf (44.48 kN)	10,000 lbf (44.48 kN)
Flow Area	40%	54%	62%	70%	78%
Bottom Connections	1 ⁵ / ₁₆ -10	1 ⁵ / ₁₆ -10	1 ⁵ / ₁₆ -10	1 ⁵ / ₁₆ -10	1 ⁵ / ₁₆ -10
Fish Neck	1.37 in. (34.80 mm)	1.37 in. (34.80 mm)	1.75 in. (44.45 mm)	1.75 in. (44.45 mm)	1.75 in. (44.45 mm)
Running Tool	1.69-in. DPU	1.69-in. DPU	2.5-in. DPU 2.75-in. DPU	2.5-in. DPU 2.75-in. DPU	2.5-in. DPU 2.75-in. DPU
Pulling Tool	40SB1	40SB1	40SB2	40SB2	40SB2

H₂S-rated and manufactured from NACE-approved material

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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