

Optis Technology

SUCCESSFUL FISH RECOVERY IN GAS STORAGE WELL

EV's real-time camera provides valuable insight and live visual data to assist with complex fishing operations

UNEXPECTED SETBACKS

A logging tool was run to evaluate the formation and fluids for future planning. However during the intervention the operator was faced with an unexpected setback - the logging tool became stuck within the well.

With the wireline still connected and well operation restricted, the operator needed a clear understanding of the location and status of the fish, to plan and execute a safe and efficient fishing operation.

RAPID MOBILIZATION

EV's Optis® R125 camera was deployed on E-line, to provide real-time visual confirmation of location and status of fish. EV's Optis® Real-Time video systems are the benchmark for downhole video technology. By providing vivid, high frame rate colour video in real-time, and on virtually any mono or multi-conductor cable, EV Optis technology enables rapid and effective evaluation of complex well issues from a straightforward well intervention solution. In this operation, rapid mobilization was enabled through EV's dedicated fleet of tools located across Canada.

The camera was run downhole alongside the wireline to locate the stuck tool. Upon reaching 1800 metres, the stuck tool was located sitting on the low side of the well. The wireline was confirmed to be connected to the tool (**Fig.1**).



Figure 1: Downview image of stuck tool at 1800m

⚠️ THE CHALLENGE

An operator in Canada experienced a complex fishing challenge in their gas storage well. A logging tool was run to evaluate the formation and fluids for future planning. However during the intervention the operator was faced with an unexpected setback - the logging tool became stuck within the well.

💡 THE SOLUTION

EV's Optis R125 camera was deployed on E-line, to provide real-time visual confirmation of location and status of fish. EV's Optis® Real-Time video systems are the benchmark for downhole video technology providing vivid, high frame rate colour video in real-time. Rapid mobilization was enabled through EV's dedicated fleet of in-country tools.

✅ THE RESULTS

Upon reaching 1800 metres, the stuck tool was located sitting on the low side of the well. The wireline was confirmed to be connected to the tool (**Fig.1**). By running the camera further to the bottom of the casing, the stuck tool appeared to be bent below the casing shoe and into the cavern (**Fig.3**). With this confirmation, the operator decided to pull the wireline out of the rope socket, and plan a custom fishing operation on slickline with a bespoke grapple to retrieve the fish. With visual confirmation of fish location and status attained, the operator successfully retrieved the fish on the subsequent intervention to put the well back into operation safely and efficiently.

By running the camera further to the bottom of the casing, the stuck tool appeared to be bent below the casing shoe and into the cavern (**Fig.3**).

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HIGH VALUE SOLUTIONS

With visual confirmation of fish location and status attained, the operator successfully retrieved the fish on the subsequent intervention to put the well back into operation safely and efficiently.

The visual information provided by Optis technology eliminates the risks of repeated failed fishing attempts due to unknown conditions, or false assumptions, saving operators valuable time and money.

Our customers trust us to provide expert assistance when they need it the most. And this example of resolving complex issues under pressure is one of thousands completed each year by the EV global team.



Figure 2: Stuck tool located on lowside of the well

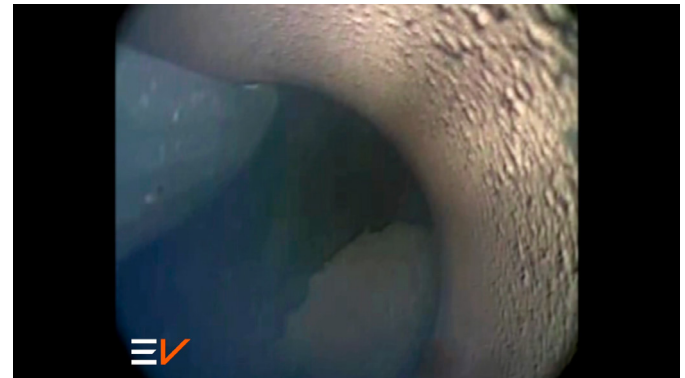


Figure 3: Tool bent below the casing shoe into the cavern

“EV did an excellent job, met all of the objectives and they are our first call for all downhole camera projects”

Company President