

CASE STUDY 6

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Efficient Interventions with RELAY Digital Slickline

Wireline & Perforation Services

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Agenda

Meeting details

- 1 Value Moment
- 2 RELAY Digital Slickline
- 3 Questions

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Safety Moment- HSE



DID YOU KNOW

SOMETIMES THE MOST IMPORTANT WORK YOU CAN DO IS TO STOP WORKING.

If you're working and you see a process that is not being followed correctly, or if you notice at-risk behavior going on, take the initiative and call a quick time-out. Then confer with your workmates to make sure everyone knows the safe way to continue.

Executing Stop Work Authority to right safety wrongs and catch potential unsafe action before it actually happens is not only responsible, it's also effective. In fact, in the oil and gas industry, it's been one of the most successful approaches to safety in the last decade.

Empower the people around you. Encourage them to watch for unsafe conditions or processes, and when it's necessary, stop the job until it can be done safely.



Use your Stop Work Authority whenever you spot an imminent HSE danger.
Report it to your supervisor and HSE Department.

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Relay Digital Slickline – One Rig up for all Intervention services



- Minimal intervention risk
- Reduce POB
- Positive Depth correlation with In-Situ assurance
- Minimize Deferred Production

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RELAY™ Digital Slickline (RDSL) applications



Remote Operations
Successful in Arctic & Desert operations



Small Platform
Lightweight solutions for small platforms



Jackup/Simops
Work under the deck off the critical path



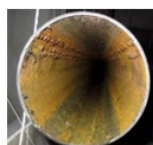
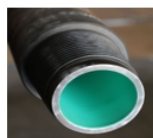
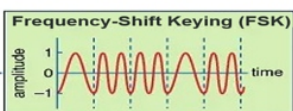
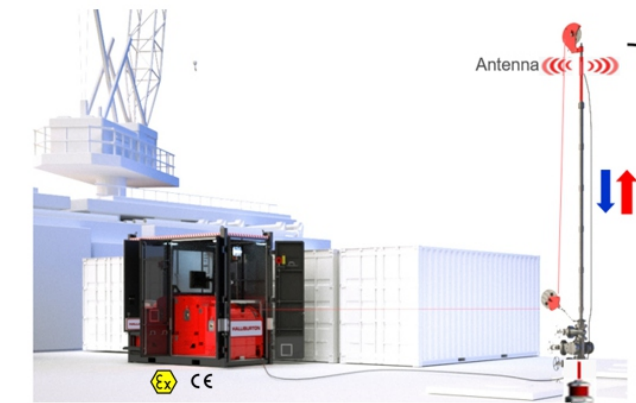
Deepwater
No cable requirement to subsea well head



RLWI Vessel
No cable requirement to the subsea well head

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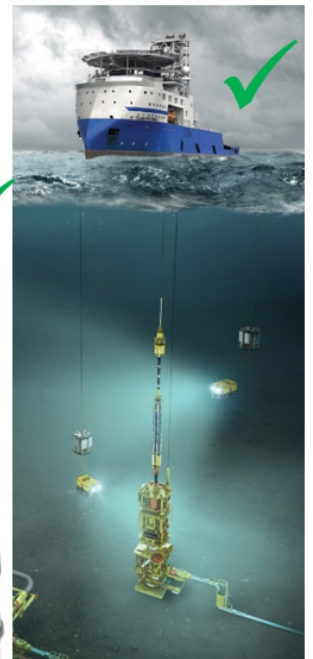
RELAY™ Digital Slickline Basics



- ✓ Works in scale
- ✓ Full jarring capabilities
- ✓ 560 bits/sec bandwidth

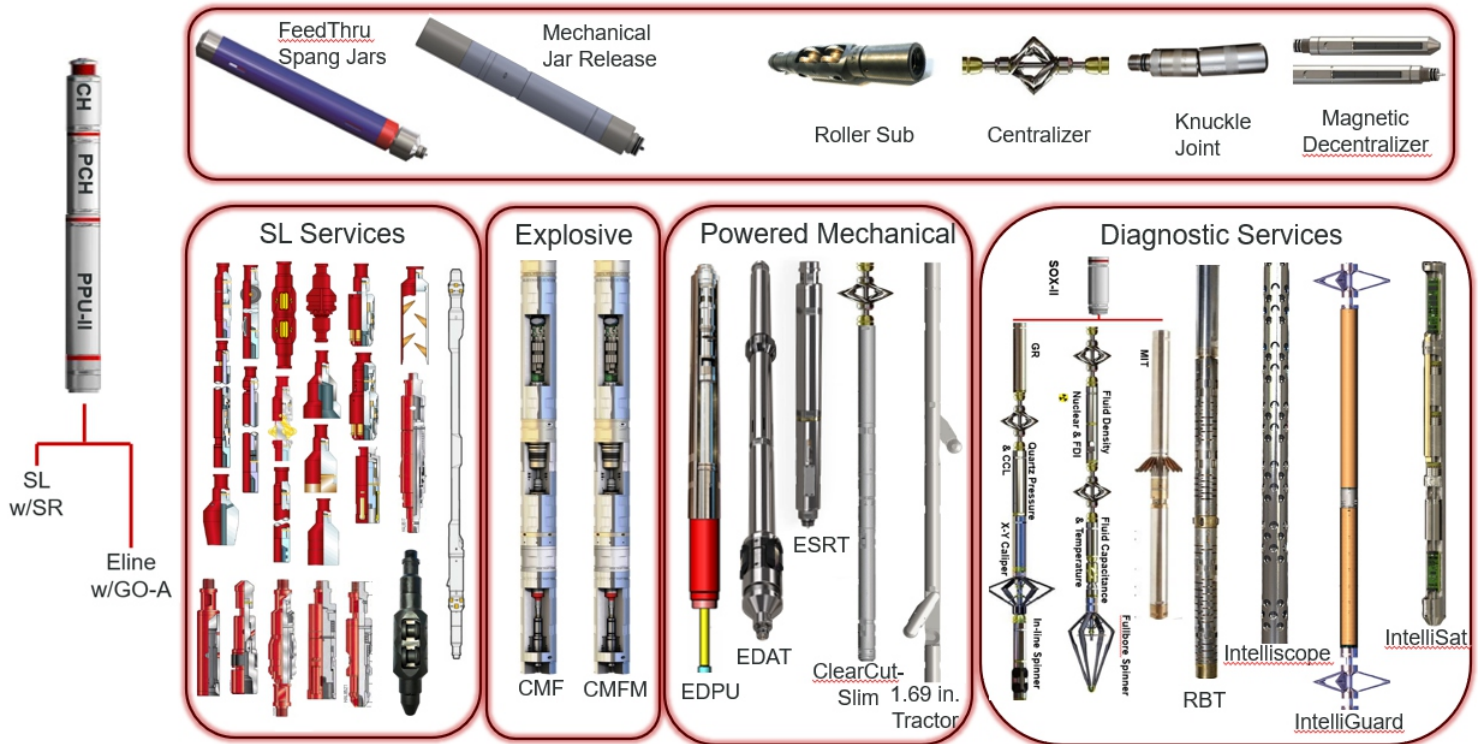
SRO sensors on every run

- CCL
- Downhole Stress (tension)
- Pressure
- Temperature
- Inclination
- Axial & radial Vibration
- Relative Bearing
- Battery Voltage & current

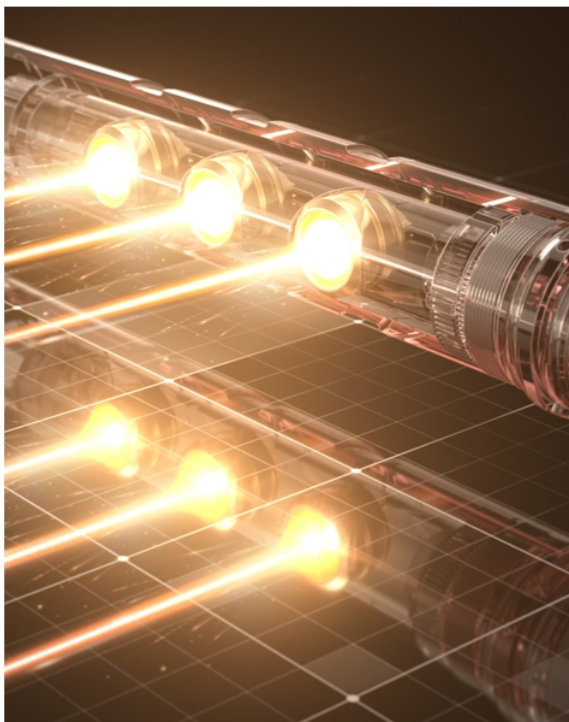


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RDSL One Rigup Matrix



Electronic Maxfire



Features

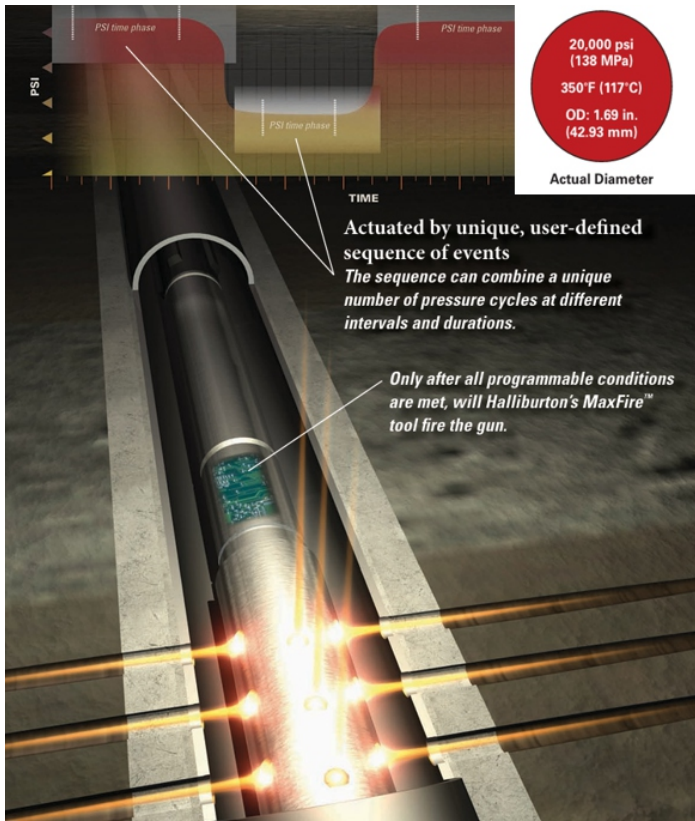
- No requirement for a pressure & temp parameter run
- Laptop has an SRO GUI panel for triggering
- API RP67 & ISO 12100 certified
- 5 levels of safety to prevent any surface detonation

Radio Frequency Safe RED® Rig Environment Detonator



- RF & Voltage safe
- 375°F temperature rating
- API RP67 approved

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Applications

- Perforating guns
- Explosive jet cutters
- Chemical cutters
- Setting tools
- Ultra-deep water or high-pressure targets
- Complex underbalanced jobs where lighter gas is used to evacuate tubing
- Extended delay completion

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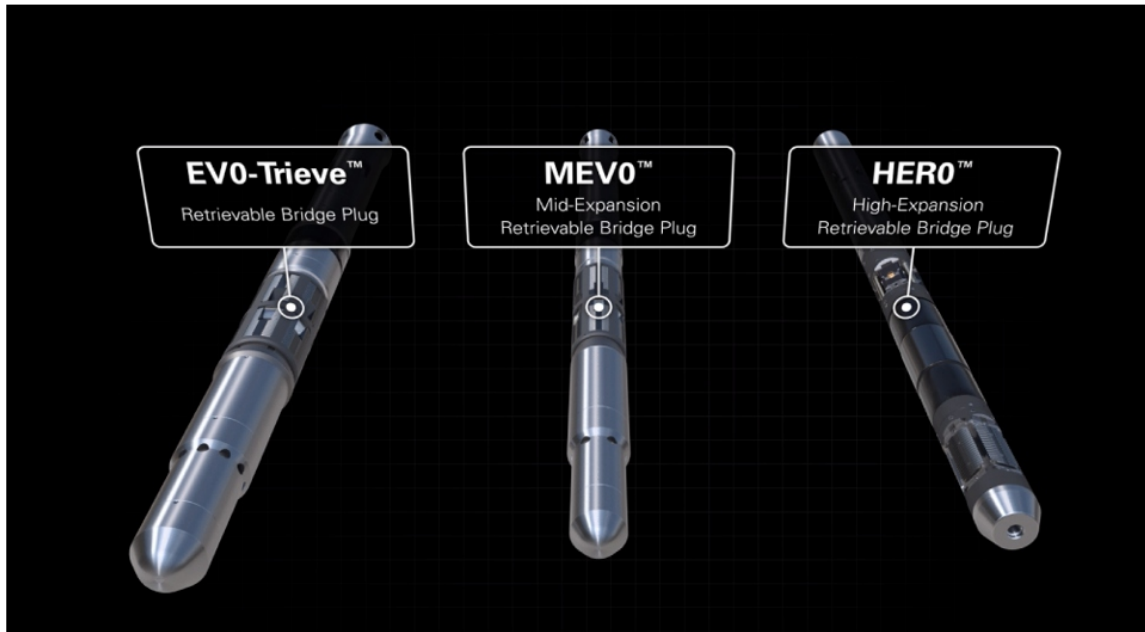
Downhole Power Unit



- Halliburton's Downhole Power Unit (DPU®) tool provides unsurpassed reliability and quality assurance in setting or retrieving wellbore devices such as plugs (bridge plug, subsea tree plugs) and packers (straddles, patches and cement retainers).
- The DPU tool is a rig-safe, non-explosive electro-mechanical tool that is expanding well intervention capabilities beyond the conventional tools.
- By generating a slow, precisely controlled linear force with real-time feedback, the DPU tool optimizes setting and ensures maximum performance of a well completion even in the most hostile well environments
- Plug and abandonment or pipe recovery operations on e-line or slickline
- Adaptable to wireline tractor conveyance for deepwater and/or high-angle well interventions

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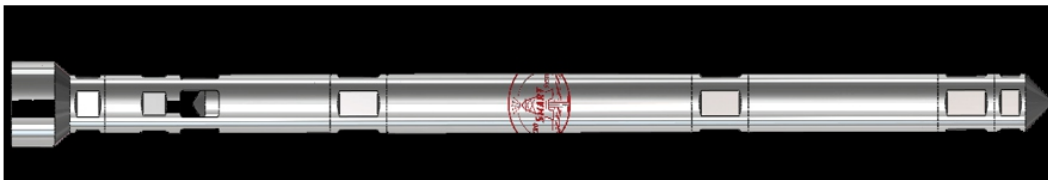
Halliburton Retrievable Plugs



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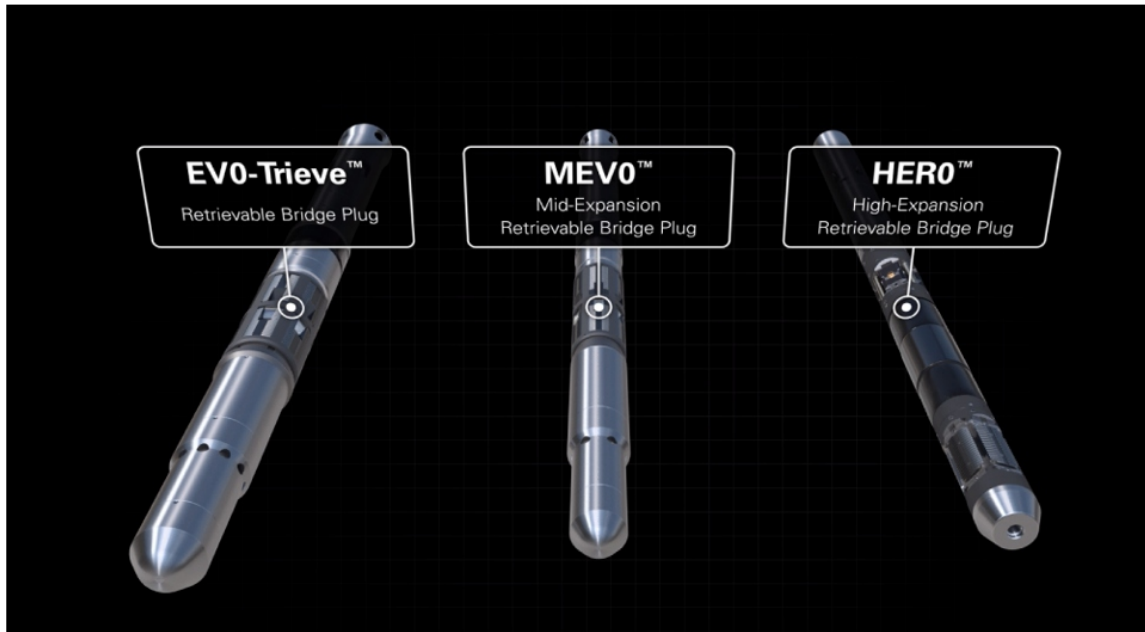
Cement dump using Smart Dump Bailer

- Controls the release of material in the wellbore without the use of explosives.
- Material is released by opening a flow through port.
- Establish a cement column above a bridge plug



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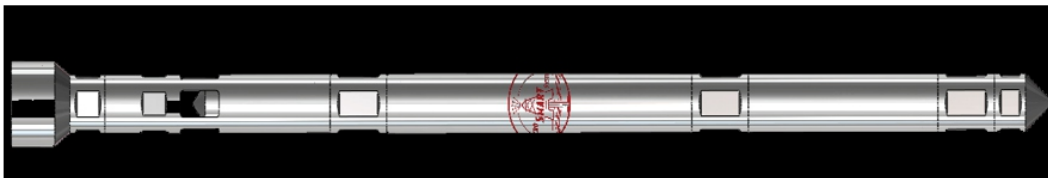
Halliburton Retrievable Plugs



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Location

Port Harcourt

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THANK YOU

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