

LIFTING YOUR
BOTTOM LINE
WITH INNOVATIVE
OIL & GAS
SOLUTIONS



**RML-2.0 Surface
Casing Patch**

www.revelmgt.com

Customer needs a result!

Revelation Management is pleased to introduce the renewed

RML-2.0 Surface Casing Patch

It was specifically designed for sealing shallow casing failures.

Its unique design provides a large internal diameter for downhole access.

The RML 2.0 Surface Casing Patch is:

1. More cost-effective than cementing operations;
2. Eliminates the need to treat the casing failure by excavating the wellhead.
3. Demonstrating 100% success rate;
4. Ensuring long-term sealing reliability beyond what cementing can achieve.

Product Specifications

- Multiple sizes: 5" to 7" (127,0 mm to 177,8 mm)
- Elements tested to a pressure of 3150 psi (21.7 MPa)
- Can be dressed for an Element rating of 343 °C (650 °F) for Thermal Applications.
- Element stack will be determined by well/ field parameters (T, P, gas composition).
- Product Composition:
 - AISI 4130 HTSR/L-80, 80 KSI Min Yield.
 - AISI 4140 HTSR/P-110, 110 KSI Min Yield.
 - AISI 1018 Mild Steel, 50 KSI Min Yield.
 - AISI 1026 Mild Steel, 50 KSI Min Yield

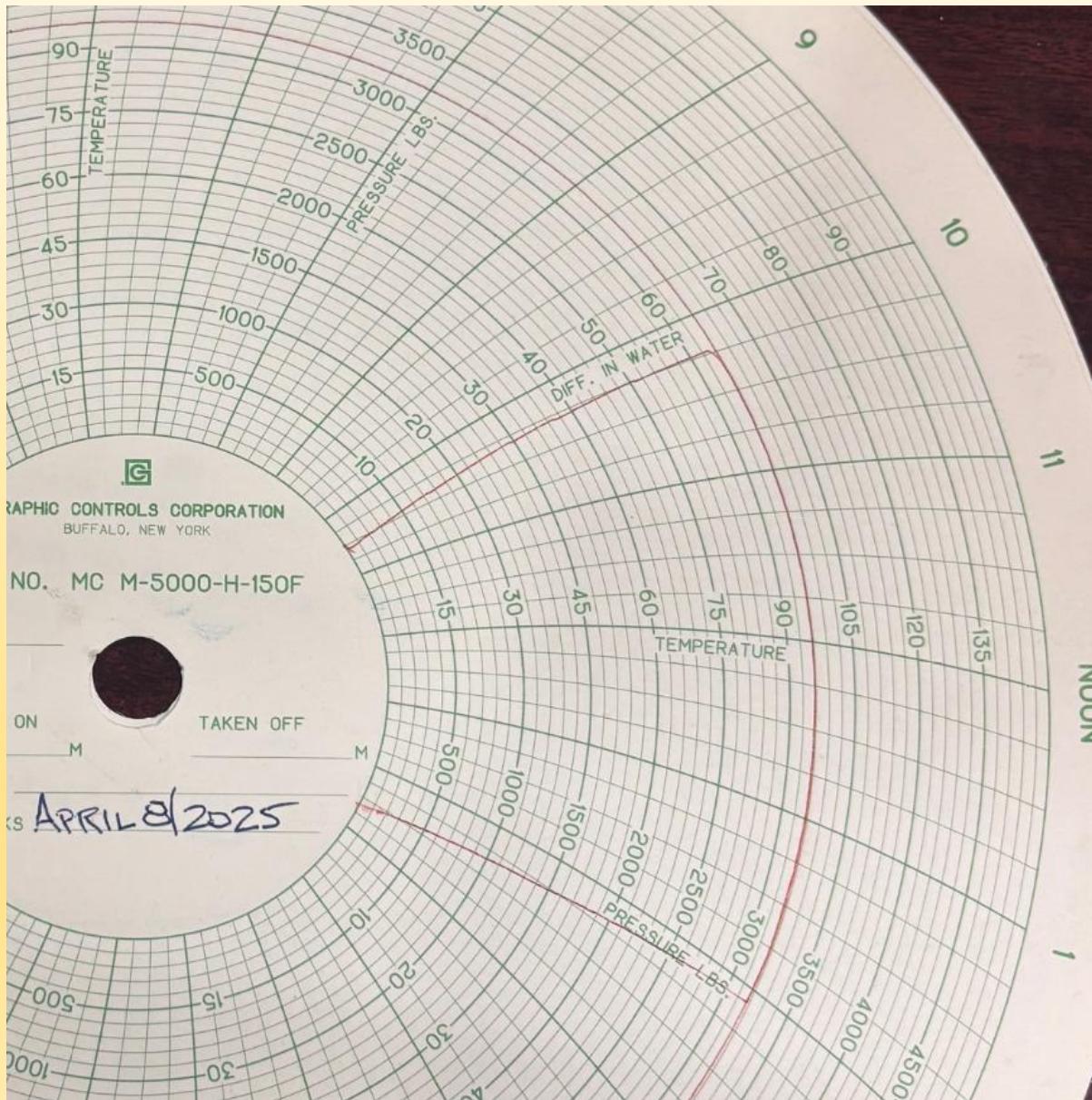
RML-2.0 Surface Casing Patch Advantages:

- **Predictable installation time.** The Casing Patch installation takes 5.5–6 hours, which is less time than cementing technologies or repairs that require digging out the wellhead.
- **Long-term isolation.** Our mechanical sealing system delivers consistent, controlled setting and ensures long-term, dependable isolation for the full service life of the well.
- **Can be removed** from the well with minimal cost when required using standard fishing equipment.

Unlike competing technologies, it does not require

- **a bridge plug** (which later needs milling out),
- **corrugated pipe** (which has low collapse resistance),
- **cone-expanded end fittings** (which may fail to provide full casing contact or can get stuck during installation).
- **Inflatable packers** for pressure testing.

Pressure integrity testing of the Elements



RML-2.0 Surface Casing Patch Technical Features

- Utilizes only hydraulic setting tool to set the Elements. No mechanical manipulation required for setting the Elements.
- By design the Surface Casing Patch Elements cannot be accidentally set under any circumstances.
- **Tested to 22.2 daN (50,000 lb) downward force** with zero force applied to the Elements.
- ID of 108.61 mm (4.275") on the 127 mm x 168,3 mm (5 x 6 5/8") Surface Casing Patch.
- Half-muled and beveled lower entry guide.
- Allows the Client to maintain well control via pumping of fluids down the annulus during RIH & Setting of Casing Patch.

RML-2.0 Surface Casing Patch

Upper Element



Upper Dognut
Ported Sleeve
Upper Element

Spacer Patch Pipe



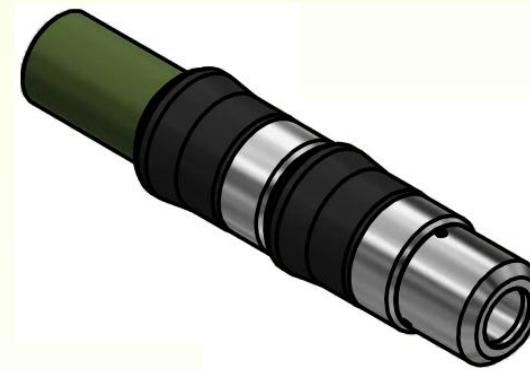
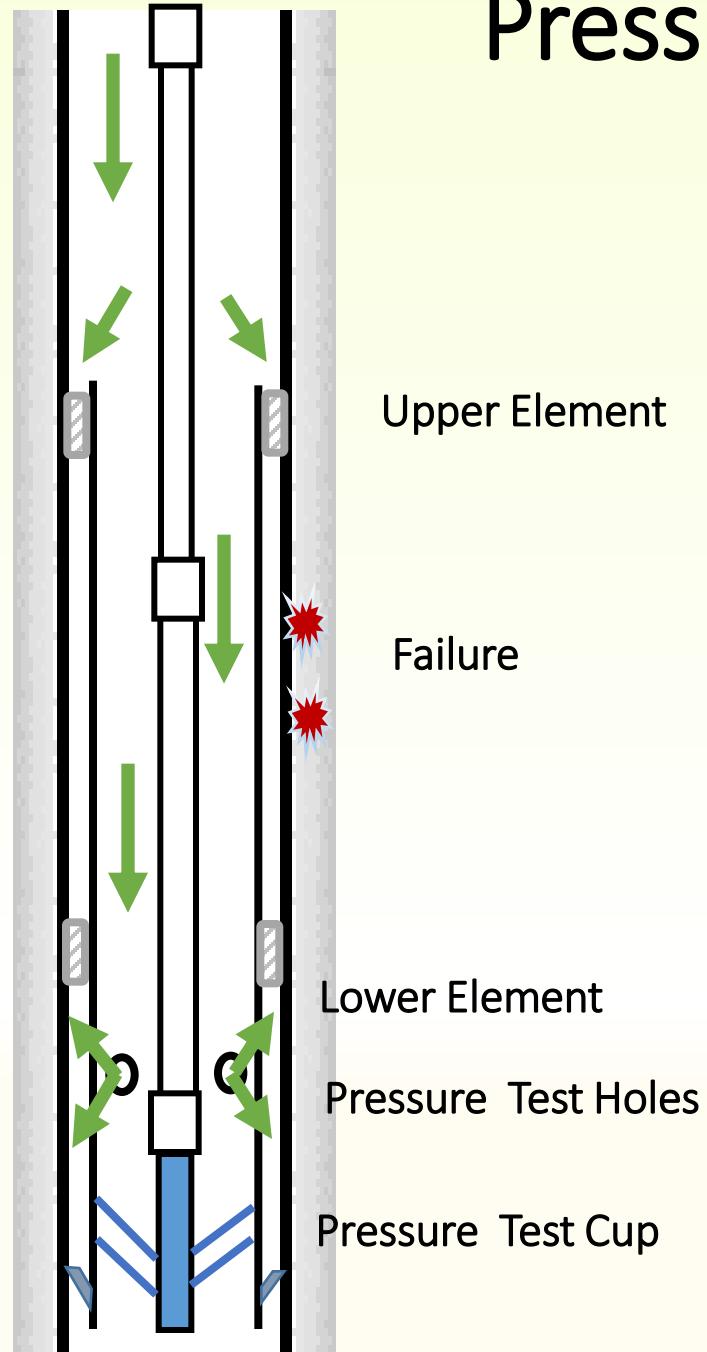
Patch Pipe

Lower Element
Slips
Pressure Test Ports
Pressure Test Cup
Beveled
Mule-shoe Guide



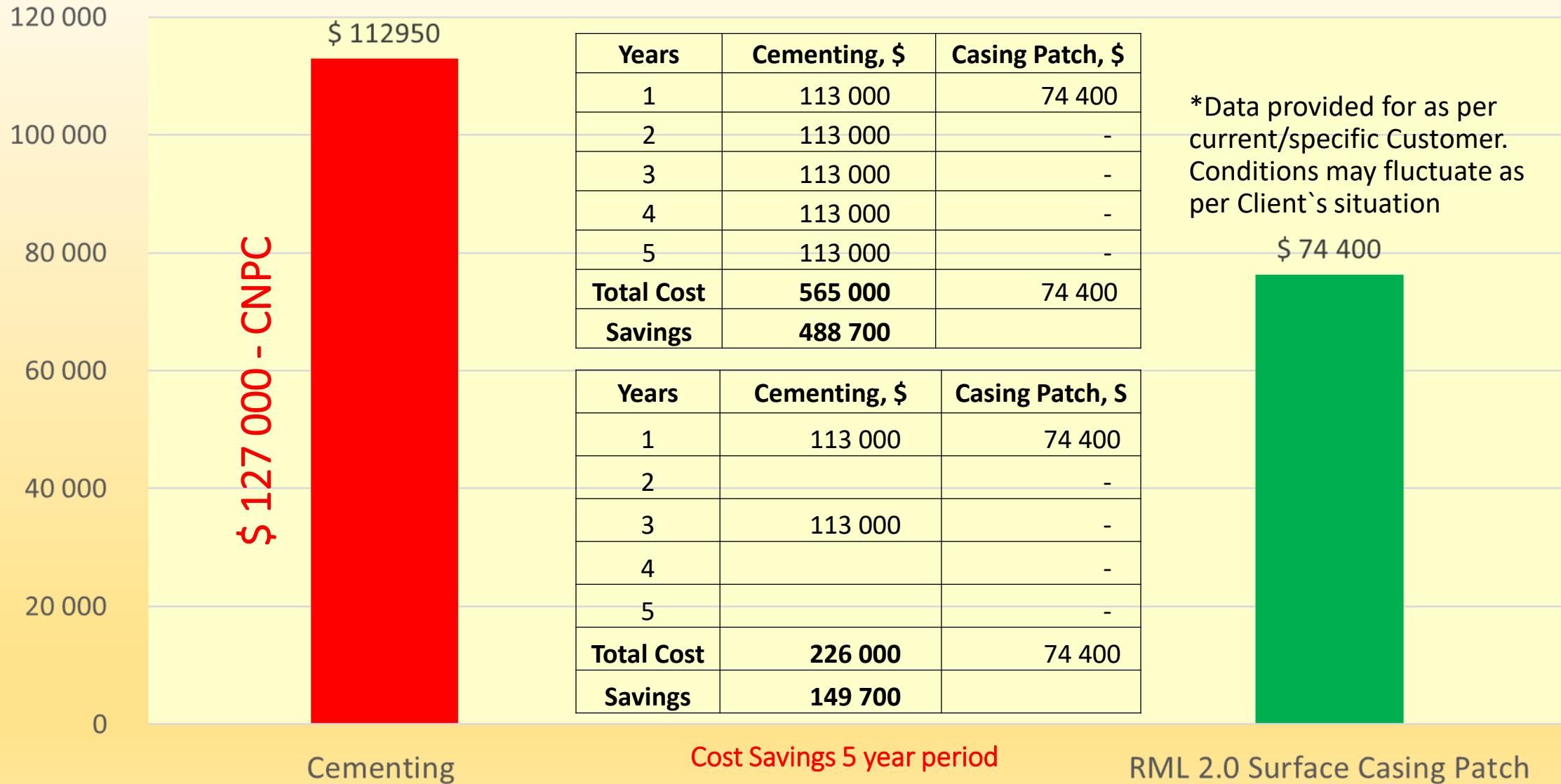
Lower Element w/ Slip Assembly

Pressure Test Schematic



Flow direction

Cost Saving Analysis RML 2.0 Surface Casing Patch



What Can RML-2.0 Surface Casing Patch do for you?

Benefits:

- **Can be removed** from the well with minimal cost when required using standard fishing equipment.
- **Predictable installation time.** The Casing Patch installation takes 5.5–6 hours, which is less time than cementing technologies or repairs that require digging out the wellhead.
- **Long-term isolation.** Eliminates the risks of re-cementing operations. Our mechanical sealing system delivers consistent, controlled setting and ensures long-term, dependable isolation for the full service life of the well.
- **Well control** via pumping of fluids down the annulus during RIH & Setting of Casing Patch.
- **Increased safety** to personnel.
- **Reduces costs** and minimizes production downtime. Eliminates costly cementing technology repairs.

With 5+ years of installation, durability and success, the Element design has been proven in 250+ wells with no equipment failure.



For more information about our technologies and services, please visit our website at:

www.revelmgt.com

Thank You!

www.linkedin.com/company/rml-revelmgt

Our contacts:

dslipchuk@revelmgt.com

pkrawiec@revelmgt.com

kslipchuk@revelmgt.com

vnikitin@revelmgt.com

Don Slipchuk, President, CEO

Pete Krawiec, Technical Director

Kyle Slipchuk, Chief Operational Officer

Vasilii Nikitin, Head of Technical Operations

MANUFACTURING API & ISO 9001 CERTIFIED

