

# Failure Analysis Report



**Client:** Santos  
**Field Ticket #:** RGS1912210555  
**SQ Report #:** **20200118133801**  
**Customer Rep:** T. Robitaille/A. Riches  
**Huracan Rep:** G. Humphreys  
**Casing:** 7" 23 lb/ft  
**Failure Analysis Date:** 31-May-20

**Well:** RM40-150-1  
**Rig:** WildDesert4  
**Installation Date:** 21-Dec-19  
**Date Received:** 30-May-20  
**Failure Date:** 13-Jan-20  
**Tubing:** 2-3/8" EUE 4.7lb/ft

**Gauge Serial #:** LC00561  
**Gauge Type:** 4-20mA  
**Burn-In Tested:** Yes  
**Cable Manufacturer:** Draka

**Gauge Batch:** Sep-19  
**Gauge Scale:** 0-3000 psia  
**Manufacturer:** Reservoir Group  
**Cable Serial Number:** 1015198358

**Diagram Collapse:** Yes  
**Corrosion:** No  
**Resistance:** 4.6 MΩ  
**Cable Length Measures:** 1020 m

**Damage:** Diagram Collapse  
**Failure Type:** Pressure reading High  
**Pressure:** >3000psia  
**Cable Length Actual:** 1023 m

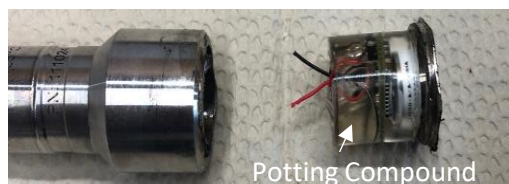
**Comments:** No corrosion visible on any part of the gauge. Gauge failed due to failure of the diagram, suspected from the failure of the glass feed-through. Gauge reading 2.674mA (-124psia) on inspection 30-May-20. Gauge reading >20mA at the time of wellsite inspection.



Retrieved Gauge from RM40-150-1



Gauge, Vibration sleeve removed, no sign of corrosion.

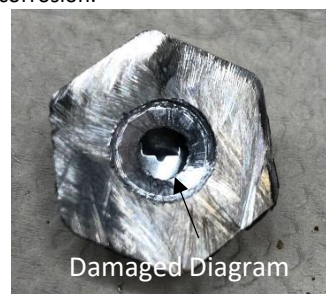


Potting Compound

Gauge cut open showing electronics. 1/4" NPT end cut off



Electronics Board



Damaged Diagram

Diagram view showing damage after 1/4" NPT cut off