

# Permanent Monitoring Installation Report



<b>Field Ticket #</b>	RGS1906032140	<b>EOT</b>	1360.1 m MD
<b>Client</b>	Santos Ltd	<b>Tubing Size</b>	2-3/8in 4.7 lb/ft
<b>Well Name</b>	RM68-108-2	<b>Casing Size</b>	7in 23lb/ft
<b>Well Location</b>	Roma	<b>SHP</b>	0 psi
<b>Rig</b>	WildDesert 4	<b>BHP</b>	1067 psi
<b>Customer Rep</b>	R. Mann	<b>SHT</b>	20 °C
<b>Service Eng</b>	M. Auld	<b>BHT</b>	45 °C

<b>Activity</b>	<b>Date</b>	<b>Time</b>	<b>Activity</b>	<b>Date</b>	<b>Time</b>
Depart Base	3-06-2019	20:30	Job End	4-06-2019	3:00
Job Start	3-06-2019	21:15	Return Base	4-06-2019	4:00

Gauge Use	Pump Control	Surface Card	Not required
Gauge Depth	1330.86 m	Telemetry	Analogue
Gauge Type	4-20mA 0-1.5k psi, 105 DegC	Surface Output	4-20mA
Pres Range	0-1500 psia	Cable Splice Depth	N/A
Batch	Mar-19 Gauge Ver2	Tubing Hanger	1/4in NPT - 1/4in Swagelok
Max Devi	10.0°	Wellhead Outlet	AnTech Type C S/N 18-022039

<b>TEC Cable</b>	0.25" x 11mm Encap	Encapsulation	Square 11mm
Serial Number	7020093071/20	Manufacturer	Draka
Conductor	16 AWG Solid Copper	Material	Polypropylene
Tube OD	0.25"	Pres Rating	15 kpsi
Material	316L SS	Temp Rating	150 DegC

<b>Gauge</b>	Analogue	Pres Sensor	Piezoresistive
Serial Number	LC00343	Calibration Range	0 -1500 psia
Depth	1330.86 m	Temp Sensor	N/A
OD	1"	Temp Range	N/A
Vibration	N/A	Vibration Range	N/A

Gauge Carrier	Cannon Clamp Type with Vibration Sleeve
Running OD	4.600"
Serial Number	N/A
Cross Coupling Protectors	2-3/8in - 3-1/2in Wiper Blade Style Stainless Steel
Running OD	4.000"
Qty Installed	10
Bands and Clips Material	0.25" x 0.75" w-7/8" Buckle 316SS
Qty Installed	22

Comments: Gauge Carrier installed top of 2nd full joint above PCP. 4-20mA Analogue gauge installed. RIH installing 128 cannon clamps and 10 banded CCP. Installed 2 x 1/4in NPT fittings in the hanger and pressure tested. Nipped down and installed Rod lock and AnTech wellhead outlet.

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Sequence of Events		
Date	Time	Description
3-06-2019		Wildesert Rig Crew to perform Gauge install.
		Pick up Sheave and make up BHA.
		Make up gauge carrier and gauge to completion.
		RIH first 4 joints then increase back tension on spooling unit.
		Installed 128 Cannon Clamps
		Installed 10 banded cross coupling protectors.
	20:30	Depart Base
	21:15	Arrive at location
4-06-2019	23:15	Make up hanger.
		Strip encapsulation and pass cable through tubing hanger and tighten TEC seals.
	23:30	Land hanger and start pressure test to 1500 psi.
		Rig down floor.
		Nippled down.
	1:15	Land and nipple up rod-lock.
		Pressure test rod lock to 300/3000 psi.
	2:00	Install AnTech wellhead outlet.
	2:15	Final gauge reading 1066.64 psia.
	2:30	Prepare report.
	3:00	Depart location for Roma.
	4:00	Arrive at Roma.