

# Permanent Monitoring Installation Report



<b>Field Ticket #</b>	RGS1902082000	<b>EOT</b>	798.6 m MD
<b>Client</b>	Santos Ltd	<b>Tubing Size</b>	2-3/8in 4.7 lb/ft
<b>Well Name</b>	RM-50-56-1	<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>	1115 psi
<b>Customer Rep</b>	Rod Mann	<b>SHT</b>	20 °C
<b>Service Eng</b>	B.Cosgrove	<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	08-Feb-19	17:10	Job End	08-Feb-19	21:45
Job Start	08-Feb-19	19:00	Return Base	08-Feb-19	22:00

Gauge Use	Pump Control	Surface Card	Not required
Gauge Depth	769.13 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	Sep-18	Tubing Hanger	1/4in NPT - 1/4in Swagelok
Max Devi	0.0°	Wellhead Outlet	AnTech Type C S/N 18-011931

<b>TEC Cable</b>	0.25" x 11mm Encap	Encapsulation	Square 11mm
Serial Number	1012793654	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	LC00244	Calibration Range	0 -1500 psia
Depth	769.13 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	83
Bands and Clips Material	0.25" x 0.75" w-7/8" Buckle 316SS
Qty Installed	168

Comments: Gauge Carrier installed 2 full joints above PCP. 4-20mA Analogue gauge installed. RIH installing 83 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
8-Feb-19		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 83 banded cross coupling protectors.
	17:10	Depart Base
	18:10	Arrive at location
	19:00	Make up hanger.
		Strip encapsulation and pass cable through tubing hanger and tighten TEC seals.
	19:30	Land hanger and start pressure test to 1500 psi.
		Rig down floor.
		Nippled down.
	20:30	Land and nipple up rod-lock.
		Pressure test rod lock to 300/3000 psi.
	21:15	Install AnTech wellhead outlet.
	21:40	Final gauge reading 1114.56 psia.
	21:45	Prepare report.
	22:00	Depart location for Roma.
	23:00	Arrive at Roma.