

Permanent Monitoring Installation Report



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|-----------------------|---------------------|--------------------|-------------------|
| Field Ticket # | RGS2006011456 | EOT | 1486.3 m |
| Client | Santos Ltd | Tubing Size | 2-3/8in 4.7 lb/ft |
| Well Name | RM68-23-2 | Casing Size | 7in 36lb/ft |
| Well Location | Roma East | SHP | 0 psi |
| Rig | Sav. 68 | BHP | 893 psi |
| Customer Rep | J. Shields | SHT | 25 °C |
| Service Eng | M. Auld / G. Matson | BHT | 45 °C |

| Activity | Date | Time | Activity | Date | Time |
|-----------------|-------------|-------------|-----------------|-------------|-------------|
| Depart Base | 01-Jun-20 | 6:00 | Job End | 01-Jun-20 | 17:30 |
| Job Start | 01-Jun-20 | 6:45 | Return Base | 01-Jun-20 | 18:30 |

| | | | |
|-------------|-----------------------------|--------------------|----------------------------|
| Gauge Use | Pump Control | Surface Card | Not required |
| Gauge Depth | 1458.18 | 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-20 | Tubing Hanger | 3/8in NPT - 1/4in Swagelok |
| Max Devi | <73° | Wellhead Outlet | AnTech Type C- 20-001526 |

| | | | |
|------------------|---------------------|---------------|---------------|
| TEC Cable | 0.25" x 11mm Encap | Encapsulation | Square 11mm |
| Serial Number | 2000012272 | Manufacturer | Draka |
| Conductor | 16 AWG Solid Copper | Material | Polypropylene |
| Tube OD | 0.25" | Pres Rating | 15 kpsi |
| Material | 316L SS | Temp Rating | 150 DegC |

| | | | |
|---------------|-----------|-------------------|----------------|
| Gauge | Analogue | Pres Sensor | Piezoresistive |
| Serial Number | LC00877 | Calibration Range | 0 -1500 psia |
| Depth | 1458.18 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 | 4.286" |
| Serial Number | N/A |
| Cross Coupling Protectors | 2-3/8in - 2-7/8in Wiper Blade Style Stainless Steel |
| Running OD | 4.216" |
| Qty Installed | 10 |
| Bands and Clips Material | 0.25" x 0.75" w-7/8" Buckle 316SS |
| Qty Installed | 22 |

Comments: Gauge installed 2 full joints above PSN. 4-20mA Analogue gauge installed. RIH installing 139 Cannon Clamp Cross Couplings and 10 banded CCP. Installed 2 x 1/4in NPT fittings in the hanger and pressure test. Nipped up and install Rod lock and AnTech wellhead outlet.

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| Sequence of Events | | |
|--------------------|-------|---|
| Date | Time | Description |
| 01-Jun-20 | 6:45 | Arrive location. |
| | 7:15 | Unload and spot equipment. |
| | 8:00 | Safety meeting with crew. |
| | | Pick up Sheave and make up BHA. |
| | 8:15 | Make up gauge carrier and gauge to completion. Gauge Reading 14.0 psia |
| | | RIH first 4 joints then increase back tension on spooling unit. |
| | | Installed 10 banded cross coupling protectors. |
| | 14:30 | Strip encapsulation and pass cable through tubing hanger and tighten TEC seals. |
| | 14:45 | Land hanger and start pressure test to 1500 psi. Gauge Reading 952.7 psia. |
| | | Rig down floor. |
| | | Nippled down. |
| | 16:15 | Land and nipple up rod-lock. |
| | | Pressure test rod lock to 300/3000 psi. |
| | | Install AnTech wellhead outlet. |
| | 17:15 | Final gauge reading 893.44psia |
| | | Prepare report. |
| | 17:30 | Depart location for Roma Base. |