 

Completions

END OF WELL REPORT







**Well: `{{ well\_name }}`**

**Client: `{{ Client }}`, `{{ Country }}`**

**GeoUnit: `{{ Geounit }}`**

**Location: `{{ Location}}`, `{{ Country }}`**

**End of Job Report**

CPL FDP Job Number: **{{Job\_Number}}**

|  |  |
| --- | --- |
| Rig: | **`{{Rig \_Name}}`** |
| Job Type: | **`{{Installation\_Type}}`** |
| Job Installation Period: | **`{{Start\_date}}` - `{{End\_date}}`** |
| Client Representatives: | **`{{Client\_Representatives}}`** |
| SLB Representatives: | **`{{PSD\_Team}}`** |
| SLB Job Coordinators: | **`{{Job\_Coordinator}}`** |
| SLB Job Supervisors: | **`{{Job\_Supervisors}}`** |
| SLB Crew: | **`{{Crew\_Members}}`** |

REVISION HISTORY:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Rev | Issue Date | Prepared by: | Reviewed By: | Approved By: |
| **00** | **`{{issue\_date}}`** | **`{{prepared\_by}}`** | **`{{reviewed\_by}}`** | **`{{approved\_by}}`** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

|  |  |
| --- | --- |
| Rev | Details of Changes |
| 00 | Initial Release |
|  |  |
|  |  |

**DISCLAIMER**The information held here has been prepared by SLB and contains information that is considered confidential and proprietary. The information is provided to the recipient for internal evaluation and should not be further distributed. Any reproduction of such information, in whole or in part, is prohibited without the permission of SLB.

**TABLE OF CONTENTS**

[LIST OF ACRONYMS 4](#_Toc162000231)

[I. EXECUTIVE SUMMARY 5](#_Toc162000232)

[1. INTRODUCTION 5](#_Toc162000233)

[2. JOB OBJECTIVES 5](#_Toc162000234)

[3. HSE OBJECTIVES 5](#_Toc162000235)

[II. WELL DATA 6](#_Toc162000236)

[III. WELL TRAJECTORY 7](#_Toc162000237)

[IV. FINAL COMPLETION SCHEMATIC 10](#_Toc162000238)

[V. DOWNHOLE EQUIPMENT INSTALLED 11](#_Toc162000239)

[1. LOWER COMPLETION 11](#_Toc162000240)

[2. UPPER COMPLETION 14](#_Toc162000241)

[3. MATERIAL CONSUMPTION - LOWER COMPLETION 20](#_Toc162000242)

[4. MATERIAL CONSUMPTION - UPPER COMPLETION 23](#_Toc162000243)

[VI. JOB CALCULATION - TDAS TORQUE AND DRAG 24](#_Toc162000244)

[VII. OPERATIONAL REVIEW 25](#_Toc162000245)

[1. EQUIPMENT RECEPTION AND OFFLINE PREPARATION 25](#_Toc162000246)

[2. RIH OPERATION 25](#_Toc162000247)

[3. CONCLUSION 26](#_Toc162000248)

[VIII. SEQUENCE OF EVENTS 27](#_Toc162000249)

[1. LOWER COMPLETION 27](#_Toc162000250)

[2. UPPER COMPLETION 32](#_Toc162000251)

[IX. LESSONS LEARNED/BEST PRACTICES 36](#_Toc162000252)

[1. LESSONS LEARNED 36](#_Toc162000253)

[2. BEST PRACTICE 36](#_Toc162000254)

[X. QHSE 37](#_Toc162000255)

[XI. ATTACHMENTS 38](#_Toc162000256)

[1. PRESSURE TEST CHARTS 38](#_Toc162000257)

[2. GAUGE INTEGRITY READINGS 41](#_Toc162000258)

[3. TDR TRACES 45](#_Toc162000259)

[4. SUB-ASSEMBLIES CERTIFICATES 46](#_Toc162000260)

[5. CLIENT SERVICE QUALITY EVALUATION 53](#_Toc162000261)

[6. TALLIES 55](#_Toc162000262)

# 

# LIST OF ACRONYMS

|  |  |
| --- | --- |
| **TERM** | **DEFINITION** |
| L/D | Lay Down |
| M/U | Make Up |
| N/U | Nipple Up |
| N/D | Nipple Down |
| RIH | Run In hole |
| OH | Open Hole |
| PBR | Polished Bore Receptacle |
| PCE | Pressure Controlled Equipment |
| PDG | Permanent Downhole Gauge |
| POOH | Pull Out of Hole |
| PUW | Pick Up Weight |
| P/U | Pick Up |
| RB | Rack Back |
| SBE | Seal Bore Extension |
| SOW | Slack Off Weight |
| S/O | Slack Off |
| TH | Tubing Hanger |
| THA | Tubing Hanger Adapter |
| THS | Tubing Head Spool |
| TRSV | Tubing Retrievable Safety Valve |
| TTQC | Torque Through Quick Connect |
| WDS | Wash Down Shoe |

# EXECUTIVE SUMMARY

* 1. INTRODUCTION

This report describes Water Injector Type 1 installation with Lower and Upper Completion on **`{{ well\_name }}`**.

* 1. JOB OBJECTIVES

The main objectives of **`{{ well\_name }}`** were the following:

* Conduct all operations in a safe and efficient manner without any service and delivery concerns, accidents, or incidents.
* Run and install Lower Completion in the **`{{ OH\_id }}`** drilled Open Hole with a washdown system, Wire wrap Screens **`{{scrn\_size }}`**, Blank pipe, Quantum Packer with MFIV and deploy to TD using 4” XT39 work string.
* Set and test the packer.
* Spot the Preservation Fluid in the Open Hole.
* Displace the 7-5/8” casing above the MFIV to **`{{ fluid\_grad }}`** packer fluid.
* Run and install Upper Completion with Nipple assembly with pre-installed T4 injection valve and Solid Gauge Mandrel with Metris Evolve PDG for reservoir monitoring to complete the well..
  1. HSE OBJECTIVES

The HSE objectives for the well were to perform all operations without incidents, injury, or environmental issues. Taking into consideration the safety of the workers as the foremost goal in conducting operations, specific safety-related issues are highlighted as follow:

* Operate within design or environmental limits.
* Follow safe work practices and procedures.
* Ensure HARC/ JSA is in place during the entire job and plan job accordingly.
* Comply with all applicable rules and regulations.
* Ensure that the job is conducted safely and promptly.

# WELL DATA

|  |  |  |  |
| --- | --- | --- | --- |
| **Well Information** | | **Casing Data** | |
| **Well name** | **`{{ well\_name }}`** | **Casing Description** | 7 ⅝” 26.4 ppf K55 VAM TOP L80 |
| **Well Type** | **`{{ well\_type }}`** | **Casing ID (in)** | 6.969 |
| **Field Name** | **`{{ field }}`** | **Casing Drift (in)** | 6.884 |
| **Total Depth MDRT (m)** | **`{{ tot\_depth }}`** | **Casing Length (m)** | **`{{ csg\_shoe }}`** |
| **Maximum deviation (deg)** | **`{{ max\_dev }}`** | **Reservoir Information** | |
| **Max DLS (deg/30m)** | **`{{ max\_dls }}`** | **Reservoir Temperature (deg C)** | **`{{ BHT }}`** |
| **Casing Shoe (m)** | **`{{ csg\_shoe }}`** | **Reservoir Pressure (psi)** | **`{{ BHP }}`** |
| **Open Hole Size (in)** | **`{{ OH\_id }}`** | **Zones MD (m)** | **`{{ OH\_drain }}`** |
| **Open Hole Interval (m)** | **`{{ OH\_drain }}`** |
| **Rig name** | **`{{Rig \_Name}}`** |
| **Rotary Table – Ground level elevation (m)** | **`{{grd \_elev}}`** |
| **Tubing data** | |
| **Lower Completion** | |
| **Tubing Description** | 4-1/2” 12.60 ppf L80 HSM-2 |
| **Tubing ID (in)** | 3.958 |
| **Tubing Drift (in)** | 3.833 |
| **Upper Completion** | |
| **Tubing Description** | 4” 13.20 ppf L80 Vam Top |
| **Tubing ID (in)** | 3.327 |
| **Tubing Drift (in)** | 3.215 |

# WELL TRAJECTORY

**[[ TRAJECTORY ]]**

**[[ SURVEY ]]**

# FINAL COMPLETION SCHEMATIC

**[[ SCHEMATIC ]]**

# DOWNHOLE EQUIPMENT INSTALLED

* 1. LOWER COMPLETION

QUANTUM PACKER

|  |  |
| --- | --- |
| **QUANTUM PACKER** | |
| **DESCRIPTION** | 7-5/8 X 4.000 QUANTUM (24-29.7), 41XX (80), 41XX (125), NITRILE (90), 4.937-6 STUB ACME |
| **PN** | 44001-000-00014 |
| **SN** | **`{{ STP\_PKR sn }}`** |
| **OD (in)** | 6.672 |
| **IN (in)** | 4.00 |
| **DIFFERENTIAL PRESSURE RATING (PSI)** | 6000 |
| **GRADE** | 41XX (125) |
| **MATERIAL /ELEMENTS** | NITRILE |
| **ASSEMBLY NO.** | **`{{ STP LC assy\_no }}`** |

SEAL BORE EXTENSION

|  |  |
| --- | --- |
| **SEAL BORE EXTENSION** | |
| **DESCRIPTION** | 5.560 X 4.000 X 123 SBE, 41XX (80), 4.937-6 STUB ACME BOX X PIN |
| **PN** | 104357649 |
| **SN** | **`{{ STP\_PBR\_1 sn }}` `{{ STP\_PBR\_2 sn }}`** |
| **OD (in)** | 5.56 |
| **IN (in)** | 4.003 |
| **INTERNAL WORKING PRESSURE (PSI)** | 6000 |
| **ASSEMBLY NO.** | **`{{ STP LC assy\_no }}`** |

MECHANICAL FORMATION ISOLATION VALVE

|  |  |
| --- | --- |
| **MFIV** | |
| **DESCRIPTION** | 7 MFIV-II-3X, 5.500 X 2.940 (4130/4140/4145 X 4130/4140/4145) (TOTAL GQCP) |
| **PN** | 104232448 |
| **SN** | **`{{ MFIV sn }}`** |
| **OD (in)** | 5.515 |
| **IN (in)** | 2.940 |
| **INTERNAL WORKING PRESSURE (PSI)** | 9000 |
| **MATERIAL/ELASTOMERS** | HNBR |
| **SHIFTING FORCE (LBS)** | 900, 1980 |
| **SHIFTING PROFILE** | ST6 |
| **ASSEMBLY NO.** | **`{{ MFIV assy\_no }}`** |

POLISHED BORE RECEPTACLE

|  |  |
| --- | --- |
| **2.688” PBR** | |
| **DESCRIPTION** | 5.230 X 2.688 X 45 PBR, 41XX (80), 4.500 (12.6) HSM-2 BOX X PIN |
| **PN** | 104357958 |
| **SN** | **`{{ WDS\_PBR sn }}`** |
| **OD (in)** | 5.230 |
| **ID (in)** | 2.688 |
| INTERNAL WORKING PRESSURE (PSI) | 26200 |
| **ASSEMBLY NO.** | **`{{ WDS assy\_no }}`** |

WASH DOWN SHOE

|  |  |
| --- | --- |
| **FLOAT SHOE** | |
| **DESCRIPTION** | SINGLE VALVE WASH DOWN SHOE, WITH 2F-3R, PLUNGER F TYPE DPFV, CAST IRON 4-1/2 12.6PPF HSM2 BOX 4140(80) |
| **PN** | 104426071 |
| **SN** | **`{{ WDS\_FS sn }}`** |
| **OD (in)** | 5.2 |
| **IN (in)** | 3.958 |
| VALVE TYPE | SINGLE POPPET |
| **ASSEMBLY NO.** | **`{{ WDS assy\_no }}`** |

* 1. UPPER COMPLETION

SWIVEL JOINT

|  |  |
| --- | --- |
| **SWIVEL** | |
| **DESCRIPTION** | SWIVEL JOINT 4 13.2PPF 4140 80KSI SHORT VERS. STD, SHLD, BXP THREADED WITH VAM TOP: SPN-02.06.353-4140(80) |
| **PN** | 104435941 |
| **SN** | **`{{ LSW assy\_sn }}`** |
| **OD (in)** | 5.359 |
| **ID (in)** | 3.280 |
| **TORQUE VALUE (FT-LBS)** | 5080/5790 – OPT. 5100 |
| **ASSEMBLY NO.** | **`{{ LSW assy\_no }}`** |

LANDING NIPPLE

|  |  |
| --- | --- |
| **3.125 LANDING NIPPLE** | |
| **DESCRIPTION** | 4 OSRN, 3.125 LANDING NIPPLE, NO-GO, 41XX (80), 4.000 (13.2) VAM TOP BOX X PIN, 4.555 X 2.907 X 15 |
| **PN** | 104357957 |
| **SN** | **`{{ LN assy\_sn }}`** |
| **OD (in)** | 4.555 |
| **IN (in)** | 2.907 |
| **NIPPLE PROFILE (SIZE/TYPE)** | 3.125/OSRN |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 41XX (80) |
| **INTERNAL WORKING PRESSURE (PSI)** | 14300 |
| **EXTERNAL WORKING PRESSURE (PSI)** | 13100 |
| **SERVICE NACE (YES/NO)** | YES |
| **TENSILE STRENGTH (LBS) - AT SPECIFIED TEMP (F)** | 423000[400] |
| **ASSEMBLY NO.** | **`{{ LN assy\_no }}`** |

T-4 INJECTION SAFETY VALVE

|  |  |
| --- | --- |
| **T-4 INJECTION SAFETY VALVE** | |
| **DESCRIPTION** | 3 IN T-4 INJECTION SAFETY VALVE |
| **PN** | 104426534 |
| **SN** | **`{{ LN assy\_T4 sn }}`** |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 4130/4140/4145[80], 935/925/718[110] |
| **OD (in)** | 2.845 |
| **MATERIAL/BODY PARTS** | 4130/4140/4145 |
| **MATERIAL/O-RING(S)** | VITON |
| **MATERIAL/SPRING** | X-750 |
| **FITS PACKING BORE I.D. (IN)** | 3.125 |
| **EXTERNAL WORKING PRESSURE (PSI)** | 5000 |
| **TENSILE STRENGTH (LBS) - AT SPECIFIED TEMP (F)** | 105342[300] |
| **ASSEMBLY NO.** | **`{{ LN assy\_no }}`** |

SGM

|  |  |
| --- | --- |
| **SOLID GAUGE MANDREL** | |
| **DESCRIPTION** | 4, 13.20, SGM ASSY, METRIS, SINGLE, TUBING, VAM TOP, BXP, 41XX [80], QCP-GM1000 |
| **PN** | 104355078 |
| **SN** | **`{{ SGM assy\_sn }}`** |
| **OD (in)** | 5.699 |
| **IN (in)** | 3.246 |
| **PORT CONFIGURATION** | TUBING PORT |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 41XX (80) |
| **GAUGE CONFIGURATION** | BA, CA, DA |
| **GAUGE CONNECTION TYPE** | INTELLITITE, SEALTITE, EDMC-S |
| **GAUGE TYPE** | METRIS |
| **INTERNAL WORKING PRESSURE (PSI)** | 12200 |
| **EXTERNAL WORKING PRESSURE (PSI)** | 12400 |
| **SERVICE NACE (YES/NO)** | YES |
| **TENSILE STRENGTH (LBS) - AT SPECIFIED TEMP (F)** | 506200[300] |
| **ASSEMBLY NO.** | **`{{ SGM assy\_no }}`** |

PDG

|  |  |
| --- | --- |
| **METRIS EVOLVE GAUGE** | |
| **DESCRIPTION** | METRIS EVOLVE, CA-10-150, GAUGE EQUIPPED SET, SINGLE(TUBING), BOTTOM, 10KSI, 150C, SEALTITE |
| **PN** | 103014914 |
| **SN** | **`{{ Metris\_sn }}`** |
| **CABLE CONNECTION TYPE** | SEALTITE |
| **CONFIGURATION** | CA |
| **MATERIAL/ANNULUS FLOW WETTED** | MP35-N, C-276, 625, 316L |
| **MATERIAL/TUBING FLOW WETTED** | MP35-N, 625 |
| **NUMBER OF CONDUCTORS** | 1 |
| **TECHNICAL COMMENT 1** | SEALTITE Connector, Single, Radial Lower Tip connections |
| **TECHNICAL COMMENT 2** | Power max 70VDC, 15 mA max plus Telemetry 10mA Up to 16 sensors per cable |
| **TECHNICAL COMMENT 3** | Maximum cable length 10.7Km. Free position of gauges on cable |
| **TELEMETRY TYPE** | DQPSK FDMA |
| **TYPE OF SEALING** | EB WELDINGS & LASER WELDING |
| **EXTERNAL WORKING PRESSURE (PSI)** | 10000 |

SHEAR CENTRALIZER

|  |  |
| --- | --- |
| **SHEAR CENTRALIZER** | |
| **DESCRIPTION** | 6.030 X 2.880 X 18 SHEAR CENTRALIZER, NON-FLUTED, RETAINED, 41XX (80), 4X 2500 LBS SHEAR, 3-1/2 (9.2) VAM TOP SC80 BOX X 3.625-8 STUB ACME PIN |
| **PN** | 103417131 |
| **SN** | **`{{ PSA assy\_LOC sn }}`** |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 41XX [80] |
| **OD (in)** | 6.030 |
| **O.D. - MAX. (AFTER SHEAR) (IN)** | 3.975 |
| **ID (in)** | 2.890 |
| **NUMBER OF SHEAR SCREWS INCLUDED** | 4 |
| **SHEAR FORCE PER SCREW AT AMBIENT TEMP (LBS) [+/-PERCENT]** | 2500 [+/-5] |
| **FITS PACKING BORE I.D. (IN)** | 4.000 |
| **EXTERNAL WORKING PRESSURE (PSI)** | 9300 |
| **TENSILE STRENGTH (LBS)** | 151000 |
| **ASSEMBLY NO.** | **`{{ PSA assy\_no }}`** |

SEAL UNITS

|  |  |
| --- | --- |
| **4.000” SEAL UNIT** | |
| **DESCRIPTION** | 4.000 X 3.030 X 18, SEAL UNIT, 41XX (80), NITRILE BONDED, 3.625-8 STUB ACME |
| **PN** | 44302-000-00001 |
| **SN** | **`{{ PSA assy\_SU sn1 }}` `{{ PSA assy\_SU sn2 }}` `{{ PSA assy\_SU sn3 }}` `{{ PSA assy\_SU sn4 }}` `{{ PSA assy\_SU sn5 }}` `{{ PSA assy\_SU sn6 }}`** |
| **OD (in)** | 3.994 |
| **IN (in)** | 3.045 |
| **FITS PACKING BORE I.D. (IN)** | 4.000 |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 41XX (80) |
| **MATERIAL/ELASTOMERS** | NITRILE, VITON |
| **MATERIAL/O-RING(S)** | NITRILE, VITON |
| **INTERNAL WORKING PRESSURE (PSI)** | 6000 |
| **EXTERNAL WORKING PRESSURE (PSI)** | 6000 |
| **DIFFERENTIAL PRESSURE RATING - ACROSS SEALS (PSI)** | 10000 |
| **SERVICE NACE (YES/NO)** | YES |
| **TENSILE STRENGTH (LBS) - AT SPECIFIED TEMP (F)** | 111000 [250] |
| **ASSEMBLY NO.** | **`{{ PSA assy\_no }}`** |

STC-6

|  |  |
| --- | --- |
| **STC-6** | |
| **DESCRIPTION** | STC-6, SPECIAL, OPEN/CLOSE, 2.940 X 1.995 (2.905) (4140/4145) |
| **PN** | 104405066 |
| **SN** | **`{{ STC assy\_sn }}`** |
| **ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)** | 4140/4145 |
| **OD (in)** | 3.2925 |
| **IN (in)** | 1.995 |
| **SET DOWN LIMIT (LBS)** | 5000 |
| **TENSILE STRENGTH (LBS)** | 92000 |
| **SERVICE NACE (YES/NO)** | NO |
| **ASSEMBLY NO.** | **`{{ STC assy\_no }}`** |

* 1. MATERIAL CONSUMPTION - LOWER COMPLETION [[ PnM LC ]]

* 1. MATERIAL CONSUMPTION - UPPER COMPLETION [[ PnM UC ]]

# JOB CALCULATION - TDAS TORQUE AND DRAG [[ TDAS ]]

# OPERATIONAL REVIEW

* 1. EQUIPMENT RECEPTION AND OFFLINE PREPARATION

All equipment including primary and secondary were loaded out to location, inspected upon arrival at location. Strapped, drifted, and inspected all blank tubing, screens, and wash pipes. All handling tools were inspected prior to RIH completions.

* 1. RIH OPERATION

**Lower Completion**

**Upper Completion Run**

* 1. CONCLUSION

The job was executed successfully without any service quality concerns, issues, or incidents. The overall operations were conducted and executed as per TOTAL ENERGIES EP UGANDA and work instructions.

# SEQUENCE OF EVENTS

* 1. LOWER COMPLETION

**[[ DSR LC ]]**

* 1. UPPER COMPLETION

**[[ DSR IC ]]**

# LESSONS LEARNED/BEST PRACTICES

* 1. LESSONS LEARNED
* `{{lesson\_learnt\_1}}`
* `{{lesson\_learnt\_2}}`
* `{{lesson\_learnt\_3}}`
  1. BEST PRACTICE
* `{{lesson\_learnt\_1}}`
* `{{lesson\_learnt\_2}}`
* `{{lesson\_learnt\_3}}`

# QHSE

|  |  |  |
| --- | --- | --- |
| **QUEST NO.** | **BRIEF DESCRIPTION** | **DATE** |
| 20240221091858 | Use of spider slips for UC installation | Feb 14, 2024 |
| 20240221085943 | Quantum Packer makeup to MFIV assembly | Feb 13, 2024 |
| 20240221082358 | Spider slips use for WP installation | Feb 12, 2024 |
| 20240208133354 | No lighting at the security post | Feb 07, 2024 |
|  |  |  |
|  |  |  |

# ATTACHMENTS

* 1. PRESSURE TEST CHARTS

**Lower Completion**

**(( LINE TEST )) - Optional**

**(( PACKER SETTING ))**

**(( ANNULUS TEST ))**

**(( RELEASE TOOL )) - Optional**

**(( BLOW BALLSEAT ))**

**(( MFIV TEST ))**

**Upper Completion**

**(( SGM- SIDE PORT TEST ))**

**(( GCH- TEST ))**

* 1. GAUGE INTEGRITY READINGS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time** | **Activity** | **Gauge A**  **SN: 02029A** | |  |  |
| **Pressure Psi** | **Temp °C** | **Voltage V** | **Current mA** |
| 09-Feb-2024 | | | | | |
|  | Bench Test | 15.11 | 23.95 | 50.19 | 7.18 |
|  | Reading during Gauge Cable Head | 14.76 | 29.27 | 50.14 | 9.14 |
| 14-Feb-2024 | | | | | |
| 22:40 | Gauge reading during low pressure test at side port mandrel on SGM 500psi/5min | 14.73 | 28.45 | 50.24 | 8.16 |
| 22:50 | Gauge reading during high pressure test at side port mandrel 5000psi/15min | 14.75 | 28.48 | 50.24 | 8.65 |
|  | 15-Feb-2024 | | | | |
| 01:35 | Gauge reading Tubing # 67 (Order Number 11) | 114.59 | 34.16 | 50.24 | 8.69 |
| 02:45 | Gauge reading Tubing # 77(Order Number 20) | 278.94 | 37.675 | 50.24 | 8.65 |
| 04:55 | Gauge reading Tubing# 56 (Order Number 30) | 461.76 | 41.293 | 50.24 | 8.65 |
| 06:37 | Gauge reading Tubing# 156 (Order Number 40) | 628.08 | 44.873 | 50.24 | 8.65 |
| 08:40 | Gauge reading Tubing# 146 (Order Number 50) | 760.52 | 48.006 | 50.246 | 8.658 |
| 10:08 | Gauge reading Tubing# 136(Order Number 60) | 835.26 | 49.738 | 50.196 | 8.658 |
| 11:49 | Gauge reading Tubing# 126(Order Number 70) | 887.27 | 50.707 | 50.246 | 8.658 |
| 13:09 | Gauge reading Tubing# 116(Order Number 80) | 940.32 | 51.687 | 50.246 | 8.658 |
| 14:26 | Gauge reading Tubing# 109(Order Number 87) | 978.85 | 52.574 | 50.196 | 8.658 |
| 18:05 | Gauge reading after making up TH assembly; prior to termination | 968.32 | 52.42 | 50.246 | 8.658 |
| 20:54 | Gauge reading before opening MFIV | 985.54 | 52.48 | 50.19 | 10.12 |
| 20:57 | Gauge reading MFIV opened | 937.47 | 52.49 | 50.19 | 10.12 |

**(( GCH SCREENSHOT ))**

**(( GAUGE ON ACQUISITION ))**

**(( SIDE PORT TEST ))**

**(( MFIV OPENING ))**

**(( FINAL GAUGE READING ))**

* 1. TDR TRACES

**[[ TDR TRACE ]]**

* 1. SUB-ASSEMBLIES CERTIFICATES

**LOWER COMPLETION**

Quantum Packer Assembly **`{{ STP LC assy\_no }}` [[ STP LC ]]**

MFIV Assembly **`{{ MFIV assy\_no }}` [[ MFIV ]]**

Washdown Assembly **`{{ WDS assy\_no }}` [[ WDS ]]**

**UPPER COMPLETION**

Lower Swivel Assembly **`{{ LSW assy\_no }}` [[ LSW ]]**

Nipple Assembly **`{{ LN assy\_no }}` [[ LN ]]**

SGM Assembly **`{{ SGM assy\_no }}` [[ SGM ]]**

Production Seal Assembly **`{{ PSA assy\_no }}` [[ PSA ]]**

STC-6 Assembly **`{{ STC assy\_no }}` [[ STC ]]**

NEO SURFACE CARD **[[ NEOCARD ]]**

METRIS EVOLVE **[[ METRIS ]]**

* 1. CLIENT SERVICE QUALITY EVALUATION [[ CSR LC]] [[ CSR UC]]
  2. TALLIES [[ TALLY LC]]

[[ TALLY UC]]