

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

• Phone : +964 7810009138 • www.qualitycontrol-iraq.com • E-mail: op@qualitycontrol-iraq.com

Date of Issue: October 29, 2024

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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-30 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 144
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 200 psi
 Calibrated Range : 0 to 200 psi
 Resolution : 5 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED



| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 50 | 50.3 | -0.30 | -0.1 |
| 100 | 100.5 | -0.50 | -0.3 |
| 150 | 150.5 | -0.50 | -0.3 |
| 200 | 200.7 | -0.70 | -0.3 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

| CALIBRATED BY | REVIEWED & APPROVED BY / LAB INCHARGE | CLIENT |
|---|---|--------|
|  Abdulrahman Loay |  LAB INCHARGE Asjad Rafiq | |

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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-31 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 145
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 600 psi
 Calibrated Range : 0 to 600 psi
 Resolution : 10 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED



| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 150 | 151.3 | -1.30 | -0.2 |
| 300 | 302.2 | -2.20 | -0.4 |
| 450 | 452.8 | -2.80 | -0.5 |
| 600 | 603.4 | -3.40 | -0.6 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

| CALIBRATED BY | REVIEWED & APPROVED BY LAB INCHARGE | CLIENT |
|---|---|--------|
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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-32 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 146
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 3000 psi
 Calibrated Range : 0 to 3000 psi
 Resolution : 50 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 750 | 754.0 | -4.00 | -0.1 |
| 1500 | 1505.0 | -5.00 | -0.2 |
| 2250 | 2258.0 | -8.00 | -0.3 |
| 3000 | 3013.0 | -13.00 | -0.4 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

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| CERTIFICATE NUMBER : QC-YB-240015-33 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 147
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 3000 psi
 Calibrated Range : 0 to 3000 psi
 Resolution : 50 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure : 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 750 | 742.0 | 8.00 | 0.3 |
| 1500 | 1494.0 | 6.00 | 0.2 |
| 2250 | 2243.0 | 7.00 | 0.2 |
| 3000 | 2995.0 | 5.00 | 0.2 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-34 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 148
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 3000 psi
 Calibrated Range : 0 to 3000 psi
 Resolution : 50 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED


| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 750 | 757.0 | -7.00 | -0.2 |
| 1500 | 1511.0 | -11.00 | -0.4 |
| 2250 | 2263.0 | -13.00 | -0.4 |
| 3000 | 3015.0 | -15.00 | -0.5 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-35 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOSHOK
 Model : NA
 Serial Number : 149
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 5000 psi
 Calibrated Range : 0 to 5000 psi
 Resolution : 100 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED

| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 1200 | 1213.0 | -13.00 | -0.3 |
| 2500 | 2515.0 | -15.00 | -0.3 |
| 3700 | 3719.0 | -19.00 | -0.4 |
| 5000 | 5022.0 | -22.00 | -0.4 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

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| REQUEST NUMBER | : By Contract | CUSTOMER DETAILS | |
| JOB NUMBER | : QC-YB-240015 | Name | Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER | : QC-YB-240015-36 | Address | Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 150
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 5000 psi
 Calibrated Range : 0 to 5000 psi
 Resolution : 100 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : **28 October 2025**
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure : 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01

The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED



| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 1200 | 1218.0 | -18.00 | -0.4 |
| 2500 | 2521.0 | -21.00 | -0.4 |
| 3700 | 3724.0 | -24.00 | -0.5 |
| 5000 | 5028.0 | -28.00 | -0.6 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

| CALIBRATED BY | REVIEWED & APPROVED BY / LAB INCHARGE | CLIENT |
|---|--|--------|
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| REQUEST NUMBER : By Contract | CUSTOMER DETAILS |
| JOB NUMBER : QC-YB-240015 | Name Halliburton Worldwide IRAQ (HPS) |
| CERTIFICATE NUMBER : QC-YB-240015-38 | Address Western Burjesia, Oil Street, District Zubair-South Iraq |

Description : **Pressure Gauge**
 Manufacturer : NOV Hydra Rig
 Model : NA
 Serial Number : 152
 Type : Analog
 Location : Injector Head (SAP 11454365)
 Range : 0 to 1000 psi
 Calibrated Range : 0 to 1000 psi
 Resolution : 20 psi
 Accuracy : NA
 Tolerance : ± 1.0 % of Full Scale
 As found : In Tolerance
 Calibration Date : October 29, 2024
Calibration Due : 28 October 2025
 Last Calibration : November 7, 2023



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 35.0 ± 2°C Humidity : 15.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

REFERENCE EQUIPMENT USED



| DESCRIPTION | SERIAL NO. | MAKE / MODEL | CALIBRATION DATE | CALIBRATION DUE DATE |
|------------------------|------------|---------------|------------------|----------------------|
| Digital Pressure Gauge | 468802 | AMETEK / XP2i | 20 Nov, 2023 | 19 Nov, 2024 |

CALIBRATION TEST RESULTS

| Measured Values on Unit Under Calibration (M) | Ref. Standard Values (A) | Deviation (D=M-A) | Full Scale Error % |
|---|--------------------------|-------------------|--------------------|
| psi | psi | psi | % |
| 0 | 0.00 | 0.00 | 0.0 |
| 240 | 243.0 | -3.00 | -0.3 |
| 500 | 505.0 | -5.00 | -0.5 |
| 740 | 743.0 | -3.00 | -0.3 |
| 1000 | 1006.0 | -6.00 | -0.6 |

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).
 The results are post adjustment.

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