

## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:

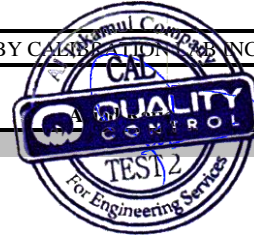
December 28, 2024

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|                                      |                                     |
|--------------------------------------|-------------------------------------|
| REF NUMBER : By Contract             | APPROVED BY CALIBRATION INCHARGE QC |
| Job No # : QC-YB-240151              |                                     |
| CERTIFICATE NUMBER : QC-YB-240151-01 |                                     |

### CUSTOMER DETAILS

Name : Daqing Drilling Company Iraq  
Address : DPAB Co.Ltd Iraq Branch Block-9  
Rig : DQ045



### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : 5 Fixed Gas System & Monitoring Control Panel  
Manufacturer : Honeywell RAE  
Serial Number Of MCP : F0130007A1  
Type : Digital  
Calibrated Range : 25 PPM H2S                      50% LEL  
Calibrated By : Hussein Alaa  
Calibration Date : December 28, 2024  
Calibration Due : **June 27, 2025**

#### REMARK (S) :

- 1 The results relate to measurements taken at nominal value only.
- 2 No adjustments were made prior to calibration.
- 3 No accessories were fitted.
- 4 Calibration were carried out for all the Sensors

| Serial Number | Sensor Type | Manufacturer  | Type       |
|---------------|-------------|---------------|------------|
| 9CEB          | H2S         | Honeywell RAE | Mesh Guard |
| 9CEA          | H2S         | Honeywell RAE | Mesh Guard |
| 9C0E          | H2S         | Honeywell RAE | Mesh Guard |
| 9DIE          | H2S         | Honeywell RAE | Mesh Guard |
| 9CC4          | LEL         | Honeywell RAE | Mesh Guard |



| Alarm Details | Low | High |
|---------------|-----|------|
| H2S-ppm       | 5   | 10   |
| CH4-%LEL      | 10  | 20   |

Tested and found OK

### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 28°C ± 2°C                      ±                      2                      Relative Humidity                      40 %RH ± 10 %RH

### CALIBRATION METHOD

Reference cylinders consisting of gases LEL & H2S is used , which are detected by gas detector by diffusion.

### TRACEABILITY

The measurements made by Quality Control, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

### REFERENCE EQUIPMENT USED :

| DESCRIPTION                                      | SERIAL NO. | Make   | Valid Until  |
|--|------------|--------|--------------|
| Calibration Gas Cylinder (25PPM H2S) & (50% LEL) | 950-092876 | CALGAZ | 25-June-2026 |

### CALIBRATION TEST RESULTS

| Applied Gas   | Values of UUC | Values on Reference Standard | Error in Reading of UUC | Uncertainty of Measurement |
|---------------|---------------|------------------------------|-------------------------|----------------------------|
| H2S PPM       | 24.9          | 25.0                         | -0.1                    | ± 1                        |
| H2S PPM       | 25.0          | 25.0                         | 0.0                     | ± 1                        |
| H2S PPM       | 25.1          | 25.0                         | 0.1                     | ± 1                        |
| H2S PPM       | 24.7          | 25.0                         | -0.3                    | ± 1                        |
| Methane(LEL)% | 50.0          | 50                           | 0.0                     | ± 1                        |

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