

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:

May 19, 2025

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REQUEST NUMBER : By Contract JOB NUMBER : QC-CAL-25178 CERTIFICATE NUMBER : QC-CAL-25178-03	APPROVED BY LAB INCHARGE-QC 
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CUSTOMER DETAILS

Name : **Daqing Drilling Company Iraq**
 Address : South Rumaila South Iraq
 Rig : DQ043 (Mud Logging)

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Fixed Gas System**
 Type : Digital
 Calibrated Range : 25 PPM H2S 50% LEL
 Calibrated By : Hussein Alaa
 Calibration Date : May 19, 2025
 Calibration Due : **November 18, 2025**



Serial Number	Sensor Type	Manufacturer	Location
200312X-044	H2S	OLDHAM	Rig Floor
8227892	H2S	OLDHAM	Shale Shaker
200312X-047	H2S	OLDHAM	Celler
160303F-009	H2S	OLDHAM	Backup
19080T7-005	H2S	OLDHAM	Backup
9006035	H2S	OLDHAM	PIT#1
9014040	H2S	OLDHAM	Backup
21124ZB-239	H2S	OLDHAM	Shale Shaker
T220620031802	H2S	NANDING	Backup
D0410071AB	LEL	Honeywell	Celler
D0410025A3	LEL	Honeywell	Shale Shaker
6116461	LEL	WUXI	Rig Floor

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)	WO463909-1	CALGAZ	July 31, 2026

CERTIFICATE OF CALIBRATION

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CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H2S PPM	25.0	25.0	0.0	± 1
H2S PPM	24.9	25.0	-0.1	± 1
H2S PPM	25.1	25.0	0.1	± 1
H2S PPM	25.0	25.0	0.0	± 1
H2S PPM	24.9	25.0	-0.1	± 1
H2S PPM	25.1	25.0	0.1	± 1
H2S PPM	25.0	25.0	0.0	± 1
H2S PPM	25.0	25.0	0.0	± 1
H2S PPM	24.8	25.0	-0.2	± 1
Methane(LEL)%	50.0	50.0	0.0	± 1
Methane(LEL)%	49.8	50.0	-0.2	± 1
Methane(LEL)%	50.0	50.0	0.0	± 1

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

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

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

Tested and found OK