

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:	July 4, 2025	Page 1 of 1
REQUEST NUMBER :	By Contract	APPROVED BY LAB IN CHARGE QC
JOB NUMBER :	QC-CAL-25247	
CERTIFICATE # :	QC-CAL-25247-01	Asjad Alamy

CUSTOMER DETAILS

Name : **Daqing Drilling Company Iraq**
 Address : North Rumaila South Iraq
 Rig : DQ012 (Mud Logger)

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Fixed Gas System**
 Manufacturer : MC
 Type : Digital
 Calibrated Range : 25 PPM H₂S 50% LEL
 Calibrated By : Abdulrahman Loay
 Calibration Date : July 4, 2025
 Calibration Due : **October 3, 2025**



ENVIRONMENTAL CONDITIONS DURING TEST

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

CALIBRATION METHOD

EL & 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 (H ₂ S)	C011126	CALGAZ	April 30, 2026
Calibration Gas Cylinder (LEL)	C011918	CALGAZ	September 26, 2026

CALIBRATION TEST RESULTS

Sensor Type	Serial Number	Location	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H ₂ S	14306	Shale Shaker	25 PPM	25 PPM	0 PPM	±1
H ₂ S	14355	Rig Floor	24.5 PPM	25 PPM	0.5 PPM	±1
H ₂ S	14396	Bell Nipple	25 PPM	25 PPM	0 PPM	±1
H ₂ S	12665	Celler	25 PPM	25 PPM	0 PPM	±1
H ₂ S	13927	Back Up	25 PPM	25 PPM	0 PPM	±1
H ₂ S	13791	Back Up	25 PPM	25 PPM	0 PPM	±1
H ₂ S	T220921031807	Back Up	25 PPM	25 PPM	0 PPM	±1
LEL	D06E000125A3	Shale Shaker	50%	50%	0.00 %	±1
LEL	M02602000059	Rig Floor	50%	50%	0.00 %	±1
LEL	D0410028B7	Bell Nipple	50%	50%	0.00 %	±1
LEL	M02602000060	Celler	50%	50%	0.00 %	±1
LEL	D06E00046A3	Back Up	50%	50%	0.00 %	±1
LEL	M02602000071	Back Up	50%	50%	0.00 %	±1

Alarm Details	Low	High
H ₂ S-ppm	5	10
CH ₄ -%LEL	10	20

The Result :

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