



# Certificate of Calibration

Iraq- Basra- Jaza'er, Field : North Rumela

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Date of Issue:

July 30, 2023

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REF NUMBER	: By Contract	APPROVED BY CALIBRATION LAB INCHARGE QC
Job No #	: QC/JN/23/00265	
CERTIFICATE NUMBER	: QC230730-02	



### CUSTOMER DETAILS

Name **DPAB Co.Ltd Iraq Branch Block-9**  
 Address **Basra - Iraq, Block 9**  
 Rig **DQ45 Mudlogging**

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description **6 Fixed Sensors**  
 Type **Digital**  
 Calibrated Range **25 PPM H2S                      50% LEL**  
 Calibrated By **Mahdi Haleem**  
 Calibration Date **July 30, 2023**  
 Calibration Due **January 29, 2024**  
 Location **DQ45**



Serial Number	Sensor Type	Location	Manufacturer	Model
19080T7-001	H2S	Shale shacker	OLDHAM	N/A
19080T7-004	H2S	Rig Floor	OLDHAM	N/A
19080T7-007	H2S	Cellar area	OLDHAM	N/A
6116463	LEL	Shale shacker	RAE SYSTEMS	N/A
6116467	LEL	Rig Floor	RAE SYSTEMS	N/A
6116464	LEL	Cellar area	RAE SYSTEMS	N/A

### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 42 °C ± 2 °C  
 Relative Humidity : 45 %RH ± 5 %RH

### CALIBRATION METHOD

A reference cylinder consisting of composition gases (O2, LEL, H2S, CO) is used , which are detected by gas detector by diffusion.

### TRACEABILITY

The measurements made by Quality Control are traceable to NIST, vide CALGAZ Calibration Gases Certificate of Analysis  
 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
Multigas Cylinder With ( 25ppm H2S & 50% LEL )	955-545316	CALGAZ	1/3/2025

### CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H2S PPM (Cellar)	25	25	0	± 1
H2S PPM (Shale shacker)	24	25	-1	± 1
H2S PPM (Rig Floor)	26	25	1	± 1
Methane(LEL)% (Cellar)	50	49	1	± 1
Methane(LEL)% (Shale shacker)	50	49	1	± 1
Methane(LEL)% (Rig Floor)	51	50	1	± 1

### 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

### Alarms Detail :

H2S 05 PPM(Low)                      10 PPM(High)  
 LEL 10% LEL(Low)                      20% LEL(High)

