



# Certificate of Calibration

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

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Date of Issue:

July 31, 2023

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REF NUMBER	: By Contract	APPROVED BY CALIBRATION LAB INCHARGE QC
Job No #	: QC/JN/23/00266	
CERTIFICATE NUMBER	: QC230731-01	



### CUSTOMER DETAILS

Name **DPAB Co.Ltd Iraq Branch Block-9**  
 Address **Basra - Iraq, Block 9**  
 Rig **DQ43**

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description **6 Gas Sensors & Monitoring Gas**  
 Serial Number of system **F0130031B6**  
 Type **Digital**  
 Calibrated Range **25 PPM H2S                      50% LEL**  
 Calibrated By **Mahdi Haleem**  
 Calibration Date **July 31, 2023**  
 Calibration Due **January 30, 2024**  
 Location **DQ43**



Serial Number	Sensor Type	Location	Manufacturer	Model
D014012947	H2S	Rig Floor	Honeywell RAE	FTD-2000
D014012929	H2S	Shale shacker	Honeywell RAE	FTD-2000
D014012956	H2S	Cellar area	Honeywell RAE	FTD-2000
D015013007	LEL	Cellar area	Honeywell RAE	FTD-3000
D015011886	LEL	Spare	Honeywell RAE	FTD-3000
D015013007	LEL	Spare	Honeywell RAE	FTD-3000

### 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)% (Spare)	51	50	1	± 1
Methane(LEL)% (Spare)	49	50	-1	± 1
Methane(LEL)% (Cellar)	50	50	0	± 1

### REMARK (S) :

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

### Alarms Detail :

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

