



# Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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<b>Date of Issue:</b>	February 3, 2024	APPROVED BY:  CHARGE QC
REF NUMBER	: By Contract	
Job No #	: QC/JN/24/00120	
CERTIFICATE NUMBER	: QC240203-19	

### CUSTOMER DETAILS

Name: **Daqing Drilling Company IRAQ**  
 Address: Basra, South Iraq  
 Rig: DQ038

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description: Fixed H2S & LEL Gas Detection System  
 Manufacturer: Status Scientific Controls  
 Model / Type: LC8 / Digital  
 Serial Number ( Panel): 14197333  
 Calibrated Range: 25 PPM H2S                      50% LEL  
 Calibrated By: Asjad Rafiq  
 Calibration Date: February 3, 2024  
 Calibration Due: May 2, 2024



Serial Number	Sensor Type	Location	Manufacturer	Model
12.890	LEL	Cellar	Status Scientific Controls	FGD10B
12.918	LEL	Shale Shaker	Status Scientific Controls	FGD10B
12.810	LEL	Rig Floor	Status Scientific Controls	FGD10B
138383	LEL	Rotary Table	Status Scientific Controls	FGD10B
13796	H2S	Cellar	Status Scientific Controls	FGD10B
13780	H2S	Shale Shaker	Status Scientific Controls	FGD10B
12.931	H2S	Rig Floor	Status Scientific Controls	FGD10B
40806	H2S	Rotary Table	Status Scientific Controls	FGD10B

### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 28°C ± 2°C                      Humidity : 44.0 ± 5 % 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
Multigas Calibration cylinder	950-092876	CALGAZ	27/06/2025

### CALIBRATION TEST RESULTS

Sensor Location	Applied Gas		Values of UUC	Error in Reading of UUC	Low Alarm	High Alarm	Uncertainty of Measurement	
	LEL %	50					±	1
Cellar	LEL %	50	50.0	0.0	10	20	±	1
Shale Shaker	LEL %	50	50.0	0.0	10	20	±	1
Rig Floor	LEL %	50	50.0	0.0	10	20	±	1
Rotary Table	LEL %	50	51.0	1.0	10	20	±	1
Cellar	H2S PPM	25	25.0	0.0	5	10	±	1
Shale Shaker	H2S PPM	25	24.0	-1.0	5	10	±	1
Rig Floor	H2S PPM	25	25.0	0.0	5	10	±	1
Rotary Table	H2S PPM	25	26.0	1.0	5	10	±	1

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