Certificate of Calibration

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Date of Issue: February 18, 2024

REF NUMBER	: By Contract	APPROVED BY CAMPBELL - CHARGE QC
Job No #	: QC/JN/24/0024	
CERTIFICATE NUMBER	: **QC240218-19**	

CUSTOMER DETAILS

Name	**Daqing Drilling Company IRAQ**
Address	Basra, South Iraq
Rig	DQ011

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	Fixed H2S & LEL Gas Detection System
Manufacturer	Status Scientific Controls
Model / Type	LC8 / Digital
Serial Number (LEL Panel)	0799
Calibrated Range	25 PPM H2S 50% LEL
Calibrated By	Asjad Rafiq
Calibration Date	February 18, 2024
Calibration Due	May 17, 2024

Serial Number	Sensor Type	Location	Manufacturer	Model
13782	H2S	Cellar	Status Scientific Controls	FGD10B
130241	H2S	Bell Nipple	Status Scientific Controls	FGD10B
13794	H2S	Rig Floor	Status Scientific Controls	FGD10B
7604	H2S	Shale Shaker	Status Scientific Controls	FGD10B
12860	LEL	Cellar	Status Scientific Controls	FGD10B
12917	LEL	Bell Nipple	Status Scientific Controls	FGD10B
12853	LEL	Rig Floor	Status Scientific Controls	FGD10B
10770	LEL	Shale Shaker	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	955-545316	CALGAZ	1/3/2025

CALIBRATION TEST RESULTS

Sensor Location	Applied Gas		Values of UUC	Error in Reading of UUC	Low Alarm	High Alarm	Uncertainty of Measurement
Cellar	H2S PPM	25	25.2	0.2	5	10	± 1
Bell Nipple	H2S PPM	25	25.1	0.1	5	10	± 1
Rig Floor	H2S PPM	25	24.9	-0.1	5	10	± 1
Shale Shaker	H2S PPM	25	25.3	0.3	5	10	± 1
Cellar	LEL %	50	50.0	0.0	10	20	± 1
Bell Nipple	LEL %	50	49.0	-1.0	10	20	± 1
Rig Floor	LEL %	50	50.0	0.0	10	20	± 1
Shale Shaker	LEL %	50	50.0	0.0	10	20	± 1

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