Al Takamul Company For Engineering Services
Quality Control – Iraq

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq
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Date of Issue: April 24, 2024

REF NUMBER	: By Contract	APPROVED BY CALIBRATION INCHARGE QC
Job No #	: QC/JN/24/00189	Asjad Rafiq
CERTIFICATE NUMBER	: **QC240424-01**	

CUSTOMER DETAILS

Name	**Daqing Drilling Company IRAQ**
Address	Basra, South Iraq
Rig	DQ037

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	Fixed H2S & LEL Gas Detection System
Manufacturer	Status Scientific Controls
Model / Type	LC8 / Digital
Serial Number (LEL Panel)	0413
Serial Number (H2S Panel)	16165417
Calibrated Range	25 PPM H2S 50% LEL
Calibrated By	Asjad Rafiq
Calibration Date	April 24, 2024
Calibration Due	July 23, 2024

Serial Number	Sensor Type	Location	Manufacturer	Model
13819	LEL	Cellar	Status Scientific Controls	FGD10B
13772	LEL	Shale Shaker	Status Scientific Controls	FGD10B
12817	LEL	Rig Floor	Status Scientific Controls	FGD10B
13844	LEL	Rotary Table	Status Scientific Controls	FGD10B
13774	H2S	Cellar	Status Scientific Controls	FGD10B
13801	H2S	Shale Shaker	Status Scientific Controls	FGD10B
13806	H2S	Rig Floor	Status Scientific Controls	FGD10B
13795	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	950-106554	CALGAZ	21/08/2025

CALIBRATION TEST RESULTS

Sensor Location	Applied Gas		Values of UUC	Error in Reading of UUC	Low Alarm	High Alarm	Uncertainty of Measurement
Cellar	LEL %	50	50.0	0.0	10	20	± 1
Shale Shaker	LEL %	50	49.0	-1.0	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	25.0	0.0	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.