

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

• Phone : +964 7810009138 • www.qualitycontrol-iraq.com • E-mail: op@qualitycontrol-iraq.com

Page 1 of 1

Date of Issue:

June 21, 2024

REF NUMBER : By Contract	APPROVED BY CALIBRATION MANAGER QC
Job No # : QC/JN/24/00246	
CERTIFICATE NUMBER : QC240621-01	



CUSTOMER DETAILS

Name: **Hilong Oil Service & Engineering Company**
 Address: Basra - Iraq
 Rig: **HL99**

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	Fixed Gas System	Alarm Details	Low	High
Manufacturer	MSA	H2S-ppm	5	10
Serial Number	1323-FX01	CH4-%LEL	10	20
Type	Digital	Tested and found OK		
Calibrated Range	25 PPM H2S 50% LEL	REMARK (S) :		
Calibrated By	Asjad Rafiq	1 The results relate to measurements taken at nominal value only.		
Calibration Date	June 21, 2024	2 No adjustments were made prior to calibration.		
Calibration Due	September 20, 2024	3 No accessories were fitted.		
		4 Calibration were carried out for all the Sensors		

Serial Number	Sensor Type	Location	Manufacturer	Model
C-08/21-88002	LEL	Cellar	MSA	PrimaX P
C-06/21-85897	LEL	Bell Nipple	MSA	PrimaX P
a-11/18-01674	LEL	Rig Floor	MSA	PrimaX P
a-09/18-11363	LEL	Shale Shaker	MSA	PrimaX P
10111291-01	H2S	Cellar	MSA	PrimaX P
10111291-02	H2S	Bell Nipple	MSA	PrimaX P
a-09/18-02866	H2S	Rig Floor	MSA	PrimaX P
a-09/18-02833	H2S	Shale Shaker	MSA	PrimaX P

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 28°C ± 2°C ± 2 Relative Humidity 40 %RH ± 10 %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
Calibration Gas Cylinder (25PPM H2S) & (50% LEL)	950-092876	CALGAZ	27-June-2025

CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
Methane(LEL)% (Cellar)	51.0	50	1.0	± 1
Methane(LEL)% (Bell Nipple)	50.0	50	0.0	± 1
Methane(LEL)% (Rig Floor)	49.0	50	-1.0	± 1
Methane(LEL)% (Shale Shaker)	50.0	50	0.0	± 1
H2S PPM (Cellar)	25.0	25.0	0.0	± 1
H2S PPM (Bell Nipple)	24.0	25.0	-1.0	± 1
H2S PPM (Rig Floor)	24.0	25.0	-1.0	± 1
H2S PPM (Shale Shaker)	25.0	25.0	0.0	± 1

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