

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 5, 2025

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REQUEST NUMBER	: By Mail	CUSTOMER DETAILS	
JOB NUMBER	: QC-CAL-25250	Name	Halliburton Worldwide IRAQ
CERTIFICATE NUMBER	: QC-CAL-25250-22	Address	Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Ranarex Gravimeter**
 Manufacturer : Chandler Engineering
 Model : 388-11062
 Serial Number : **P-1661**
 Type : Analog
 Range Specific Gravity : 0.52 to 1.03 and 0.97 to 1.90 SG
 Sample Flow Rate: 10-15 Scf/hour
 Accuracy : +/- 0.5%
 As Found : In Tolerance
 Calibration Date : July 5, 2025
Calibration Due : July 4, 2026



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 2°C Humidity : 20.0 ± 5 % RH Atm. Pressure 1013.0 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated according to manufacturer instructions. The deviations of the measurements obtained from UUC with respect to reference standards are determined to obtain the error.

REFERENCE EQUIPMENT USED :

A 1.850" diameter calibration pulley which is provided by manufacturer was used for calibration. This Calibration Pulley should give the result 0.640 Specific Gravity.

CALIBRATION TEST RESULTS

Measured Value on Unit Under Calibration (M)	Expected Value (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
SG	SG	SG	±SG
0.640	0.640	0.000	0.001

Remarks: The equipment was operated with the standard operating pulley and adjusted to 1 SG with air, the equipment was then shut down and the 0.640 calibration pulley was installed. The equipment was operated with the calibration pulley and found to show 0.640 SG as expected .The equipment was then returned to the standard operating pulley and again showed 1 SG.

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

- The results are as found (no adjustment done).
- The results are post adjustment.

CALIBRATED BY	REVIEWED & APPROVED BY / IN CHARGE	CLIENT
 Abdulrahman Loay	 LAB INCHARGE Asjad Rafiq	