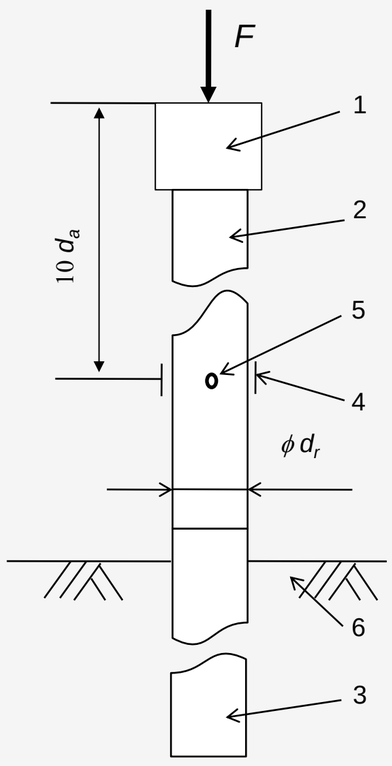
# SPT Calibration Report

## Hammer Energy Measurement Report

| | | |
|---|---|---|
| **Type of Hammer** | | PREMIER |
| **Test No** | | EQU2319 |
| **Client** | | OAKLAND SITE INVESTIGATION |
| **Test Depth (m)** | | 10.50 |
| **Mass of hammer** | $m$ = | 63.5kg |
| **Falling height** | $h$ = | 0.76m |
| $E_{theor}$ = | $m \times g \times h$ = | 473J |

## Characteristics of the instrumented rod

| | | |
|---|---|---|
| **Diameter** | $d_r$ = | 0.052 m |
| **Length of instrumented rod** | | 0.558 m |
| **Area** | A = | 11.61 cm² |
| **Modulus** | $E_a$ = | 206843 MPa |




**Key**

1 Anvil
2 Part of instrumented rod
3 Drive Rod
4 Strain Gauge
5 Accelerometer
6 Ground

$F$ Force
$d_r$ Diameter of rod

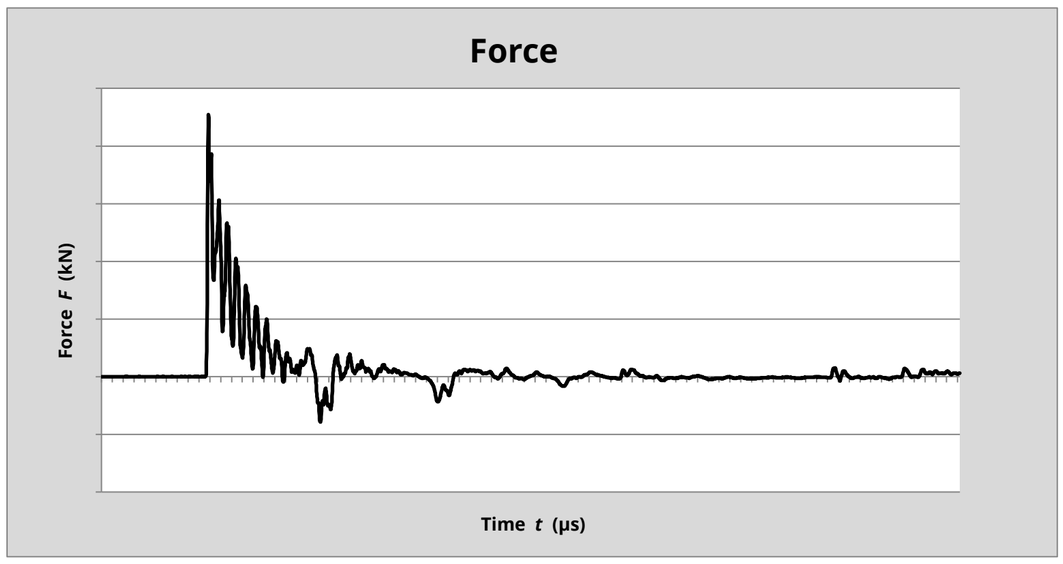
Fig. B.1 and B.2
BS EN ISO 22476-3 : 2005 + A1 : 2011

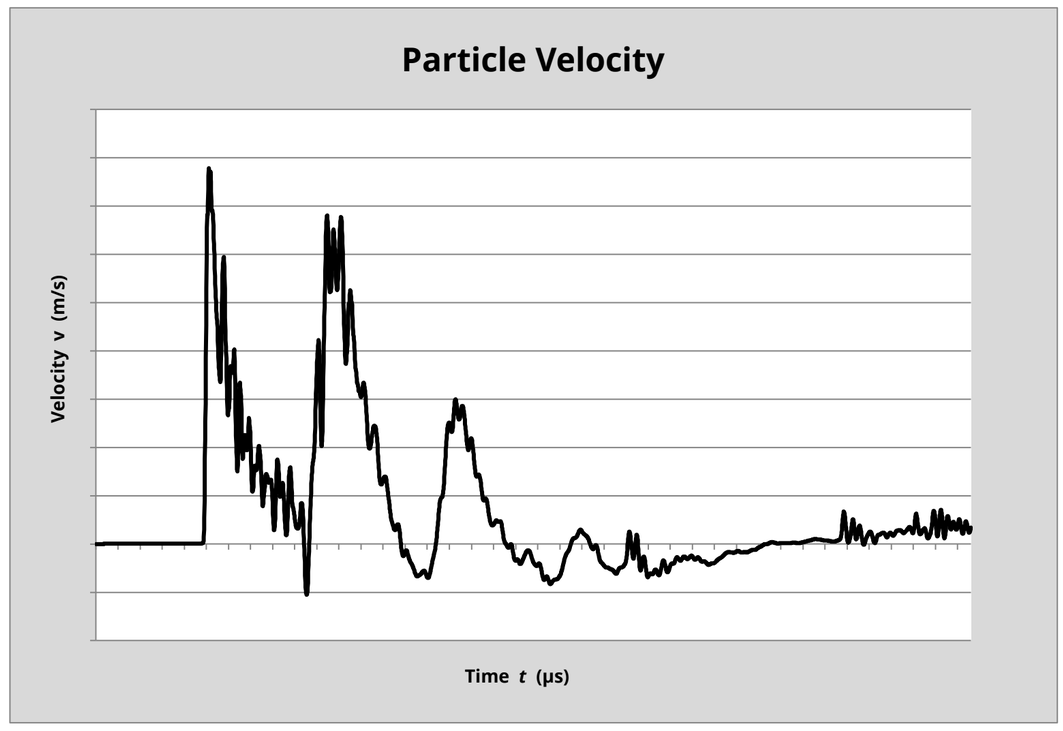
| DATE OF TEST | VALID UNTIL | HAMMER ID |
|---|---|---|
| 05/04/2019 | 04/04/2020 | 110-106 |

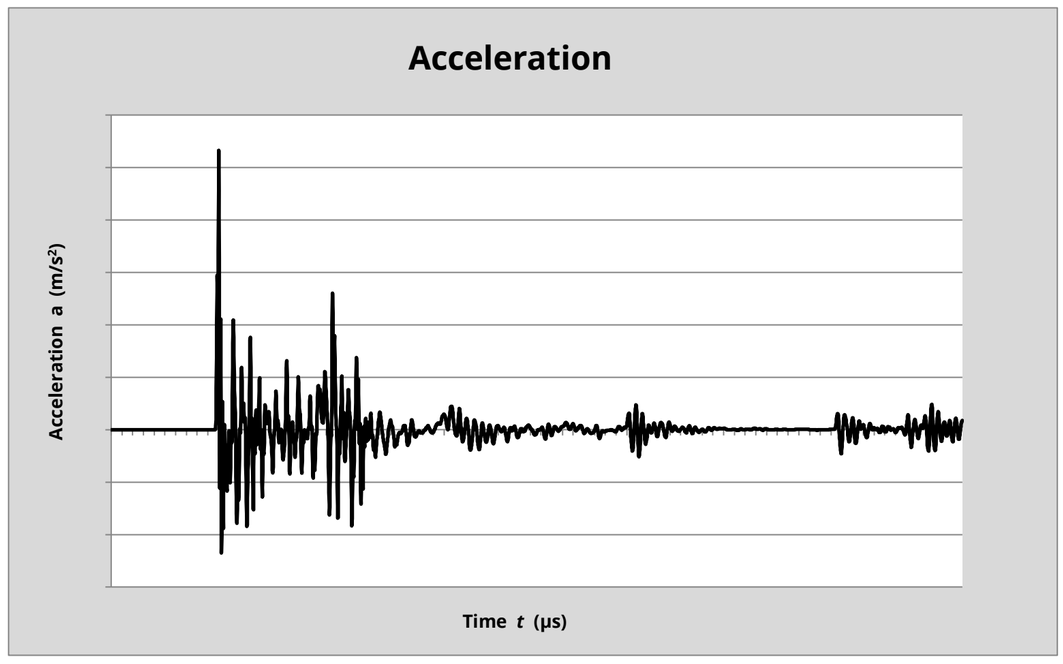
Observations:
1.

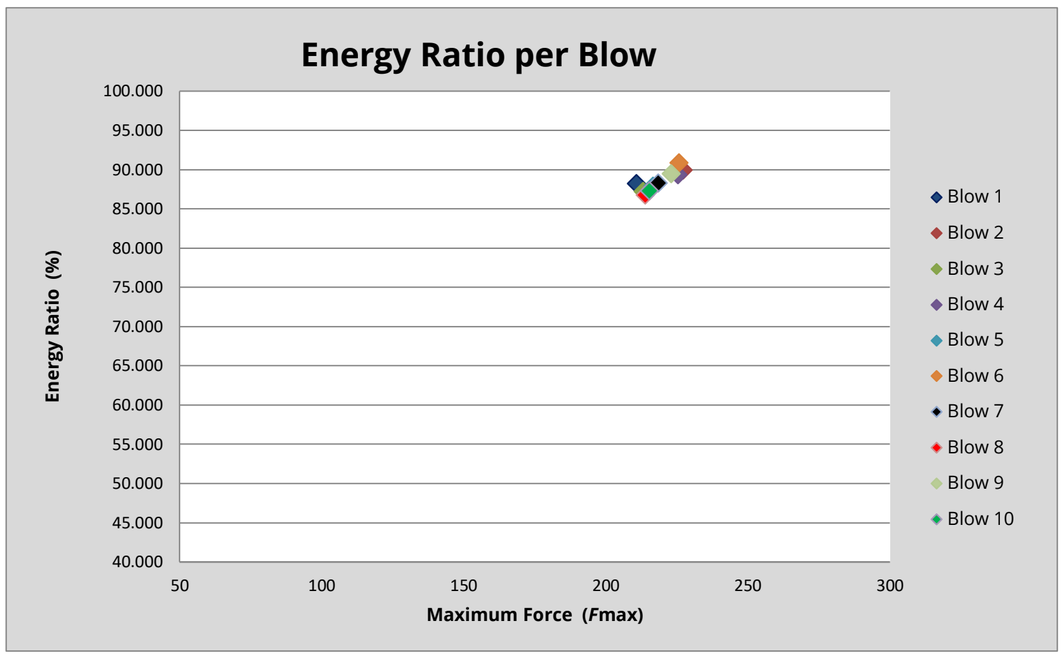
$E_{meas}$ = **0.417** kN-m

$E_{theor}$ = **0.473** kN-m




**Energy Ratio (Er)** = $\frac{E_{meas}}{E_{theor}}$ = **88.24%**



| Equipe SPT Analyzer Operator | Certificate prepared by | Certificate checked by | Certificate date |
|---|---|---|---|
| **AF** | 17/04/2019 | 17/04/2019 | **17/04/2019** |

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