



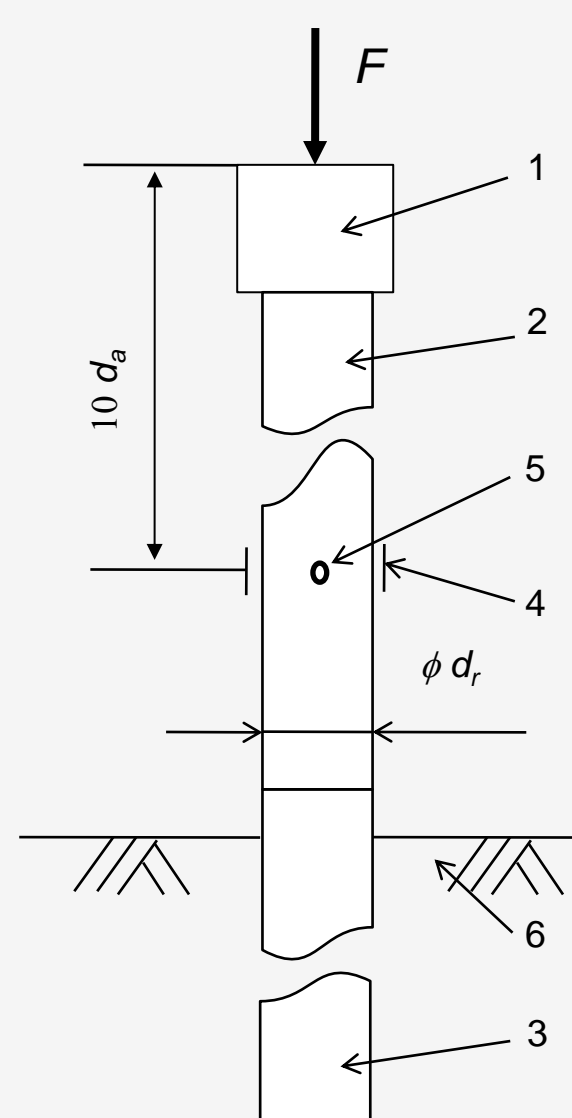
# SPT Calibration Report

## Hammer Energy Measurement Report

Type of Hammer PREMIER  
Test No EQU2326  
Client OAKLAND SITE INVESTIGATION  
Test Depth (m) 11.00  
Mass of hammer  $m = 63.5\text{kg}$   
Falling height  $h = 0.76\text{m}$   
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

## Characteristics of the instrumented rod

Diameter  $d_r = 0.052\text{ m}$   
Length of instrumented rod  $0.558\text{ m}$   
Area  $A = 11.61\text{ cm}^2$   
Modulus  $E_a = 206843\text{ MPa}$



### 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 382409

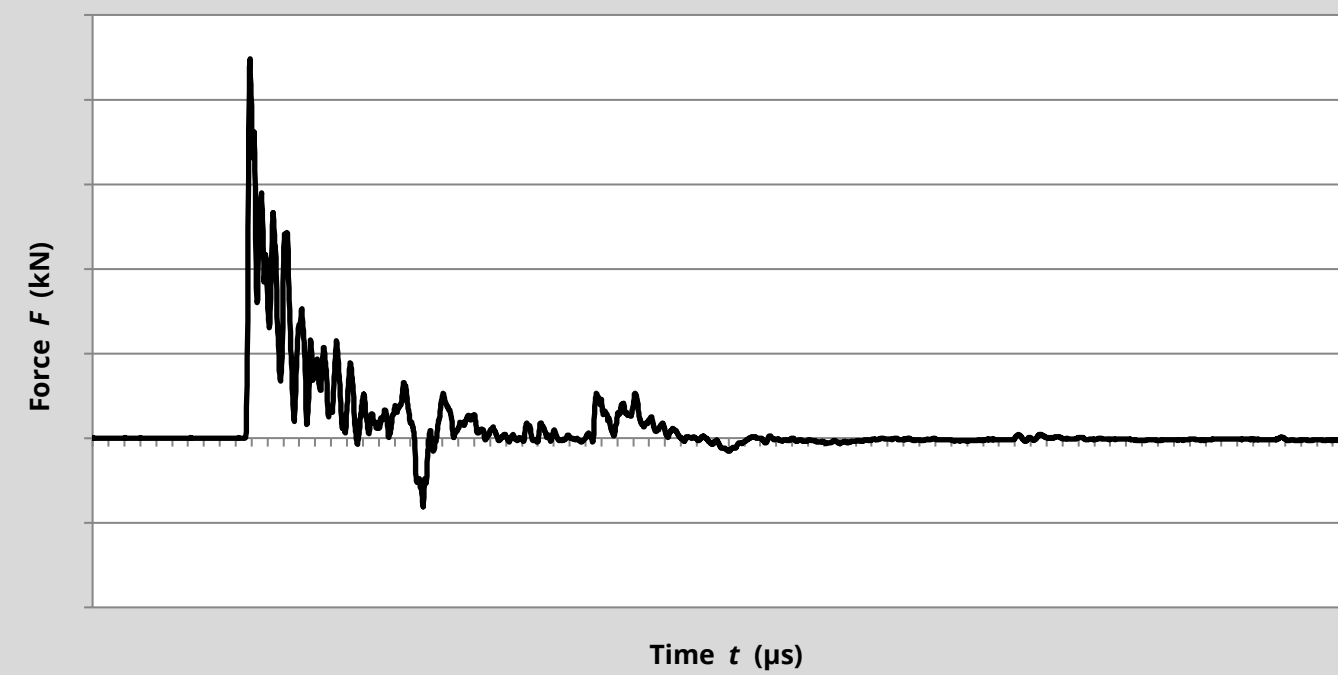
### Observations:

1.

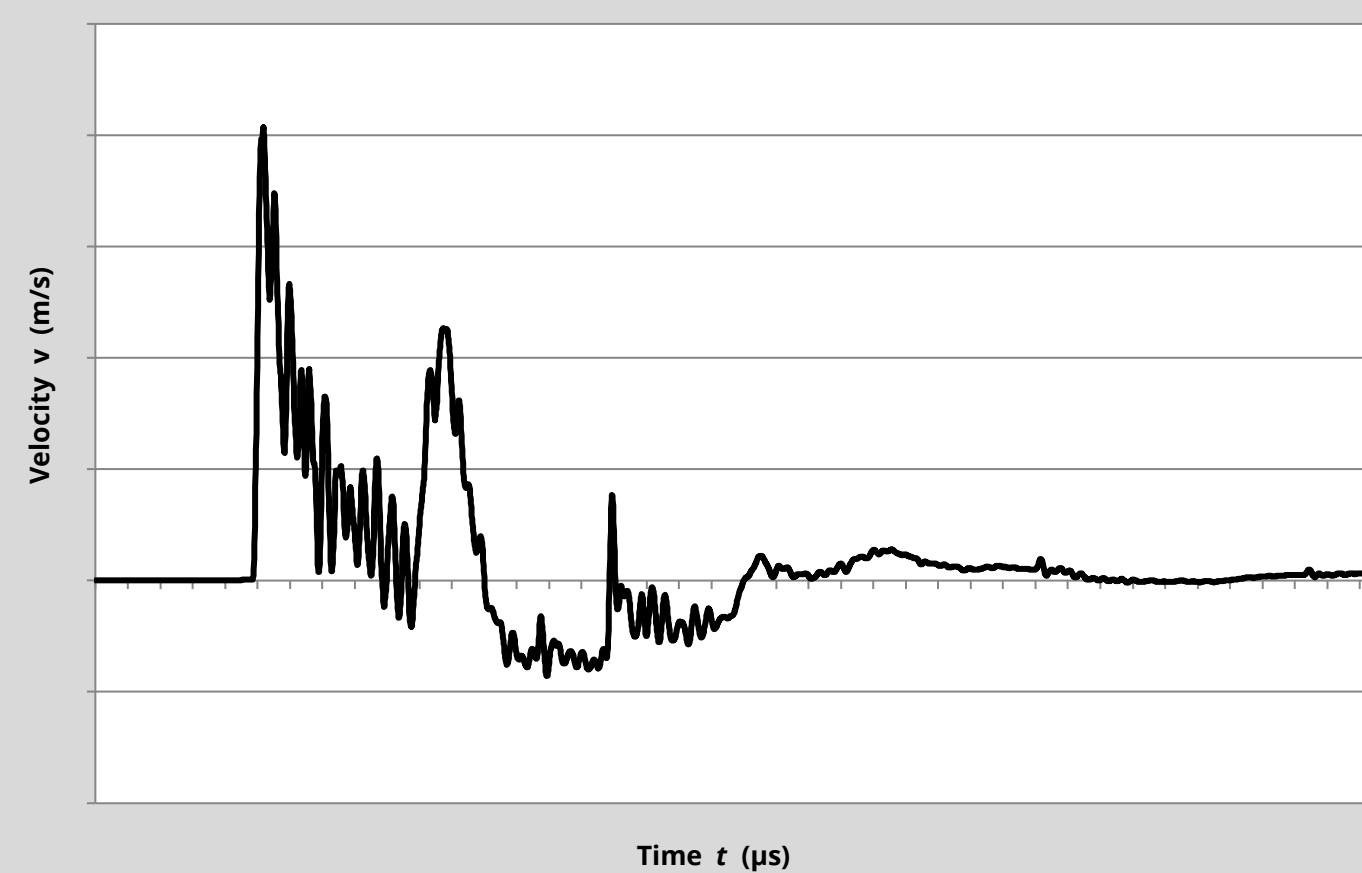
$E_{\text{meas}} = 0.427\text{ kN-m}$

$E_{\text{theor}} = 0.473\text{ kN-m}$

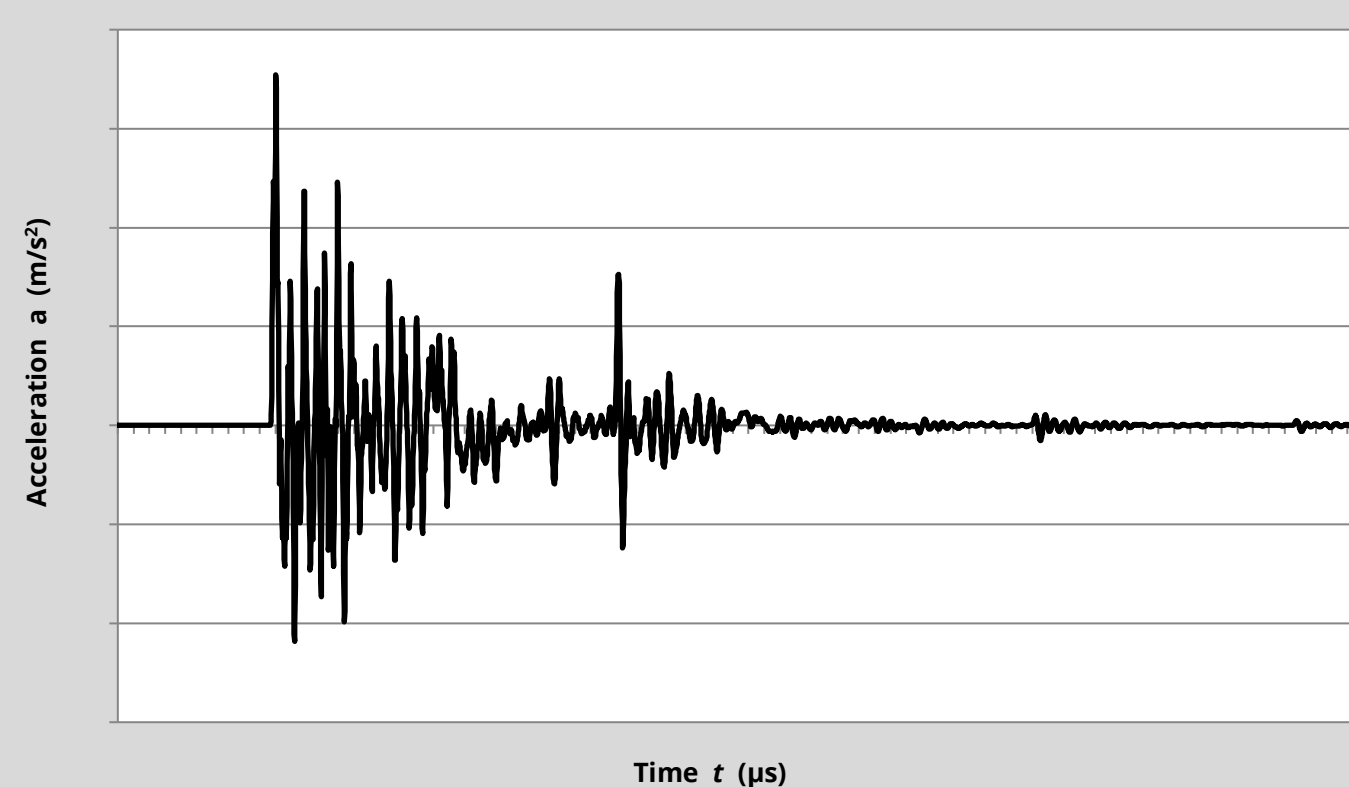
### Force



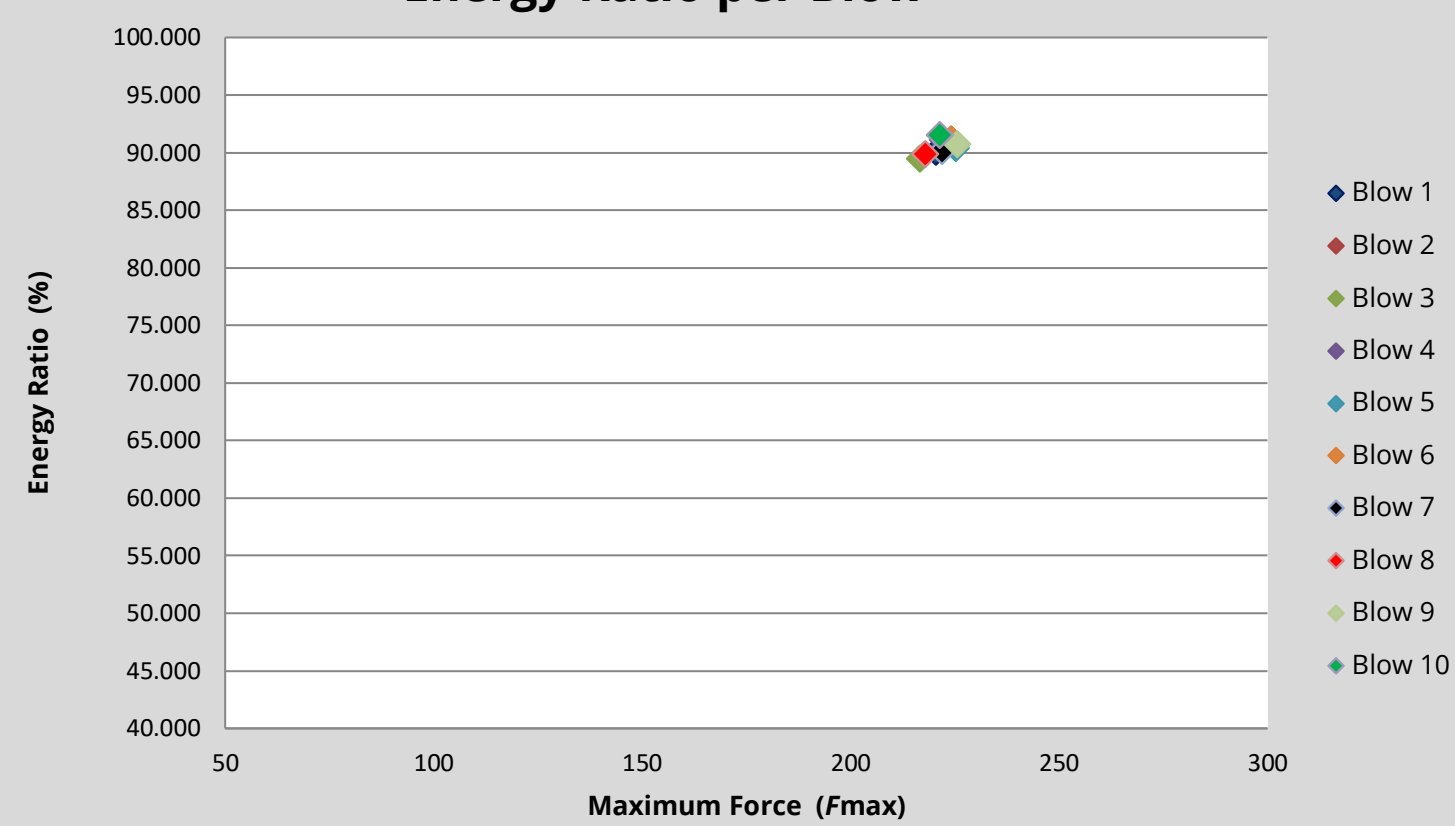
### Particle Velocity



### Acceleration



### Energy Ratio per Blow



$$\text{Energy Ratio (Er)} = \frac{E_{\text{meas}}}{E_{\text{theor}}}$$

**90.26%**  
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Equipe SPT Analyzer Operator

**AF**

Certificate prepared by

*[Signature]*

Certificate checked by

*[Signature]*

Certificate date

**17/04/2019**