

Day Rates

Deep borehole per 24 hour day	£1600
Logging winch and driver 8 hour day	£720
Logging engineer 8 hour day	£360
Mobilisation and demobilisation	£510
Longer term discount rates	10% for > 7 days continuous use
	15% for > 14 days continuous use
	20% for > 28 days continuous use
	25% for > 56 days continuous use
	30% for > 84 days continuous use

Support Services

All rates for support services are per 8 hour day	
Mechanical technician labour	£620
Electronic technician labour	£620
Instrument cabin	£100

Consultancy

All rates for consultancy services are per hour	
Logging Engineer	£74
Geoscientist	£74
Electronics Engineer	£74

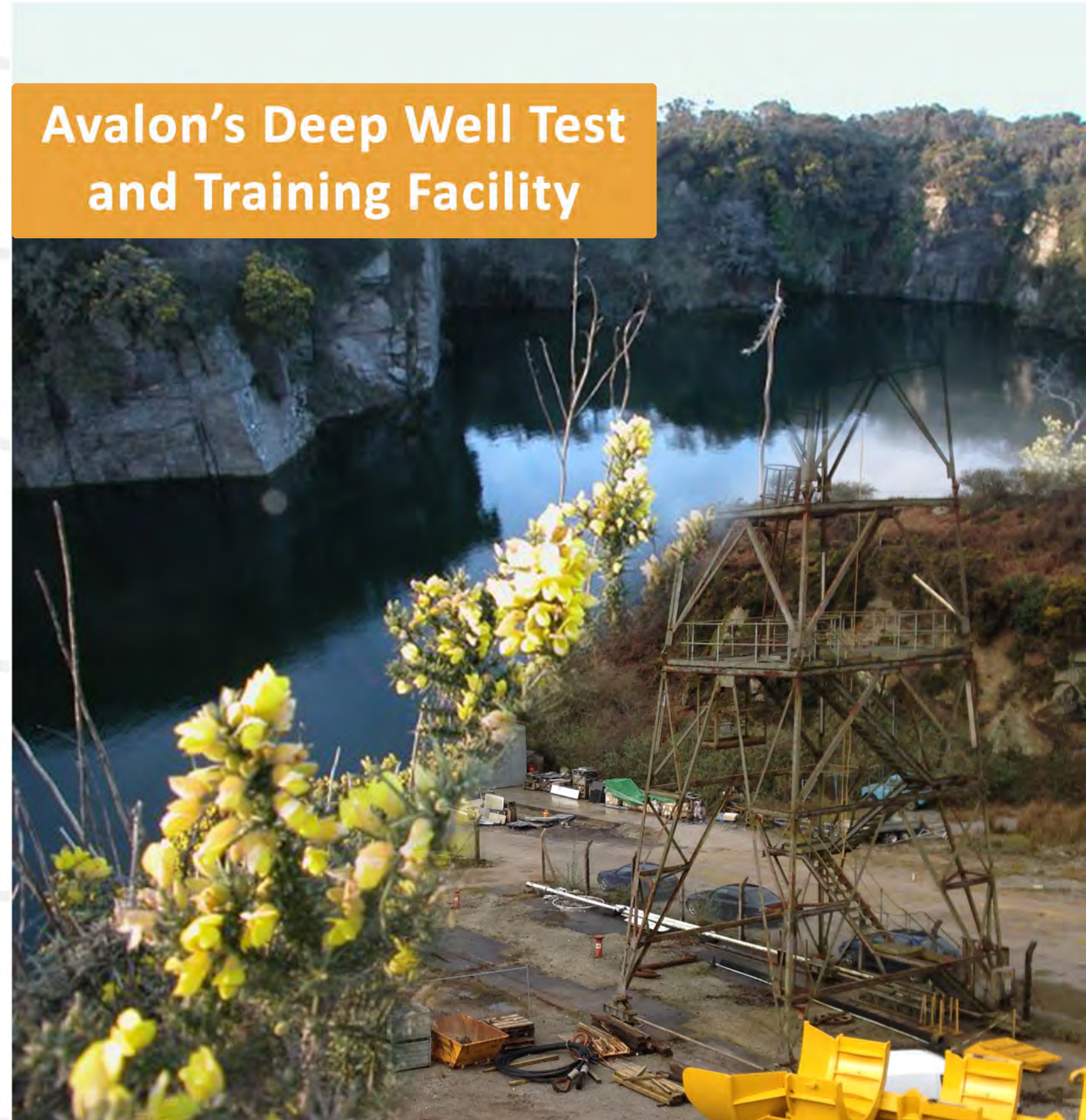


ASL employs a range of experienced field support staff to help facilitate all client training and testing needs.

neopartners

The Rosemanowes Quarry will be the new location for Neopartners Ltd. an Avalon company which designs, develops and produces harsh environment, well based electronic systems for intelligent well applications that require data acquisition and actuation.

Avalon's Deep Well Test and Training Facility



The Rosemanowes Quarry

Avalon Sciences has acquired the ABB Offshore System borehole facility at Rosemanowes Quarry, Penryn in Cornwall. The acquisition of the quarry will allow Avalon Sciences to carry out testing of borehole equipment within a controlled environment. This will give Avalon an easier means of testing equipment replicating real onsite conditions, allowing us to provide a better understanding of problems that may develop in other locations.

The site also provides an ideal training facility for trainees to learn how to maintain, assemble and deploy ASL tool systems on site. A comprehensive training itinerary has been developed such that a complete field engineer and maintenance course can be carried out over a period of days. There is also an opportunity for trainees to carry out onsite VSP surveys to gain real time experience with ACQ acquisition software, with an option to carry out processing training of the collected data set with VSProwess. Please refer to our ATC training brochure for more details about these courses.

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Rosemanowes Quarry,
Herniss, Longdowns,
Penryn, Cornwall UK
TR10 9DU

History of the Quarry

The quarry was a UK Hot Dry Rock Geothermal Energy Research site, offering access to one of the most comprehensively logged well systems in the world. The boreholes are located within a fresh water filled granite environment. The quarry was the first deep geothermal project within the UK starting in 1977. The aims of the project were:

- 1) To see if hot dry rock could be fractured by water pressure alone (Achieved).
- 2) To find out if the rock was hot enough to make steam for turbine generation (Not achieved at the depths attained).

The project concluded in 1991, but studies continued until 1997.

In 2006 the quarry was used as a deep borehole test facility, making the quarry the best logged site in the world. The Quarry was purchased by ASL in 2013.

Borehole Test Facility

The quarry consists of:
Three deep boreholes with a 9 5/8" casing

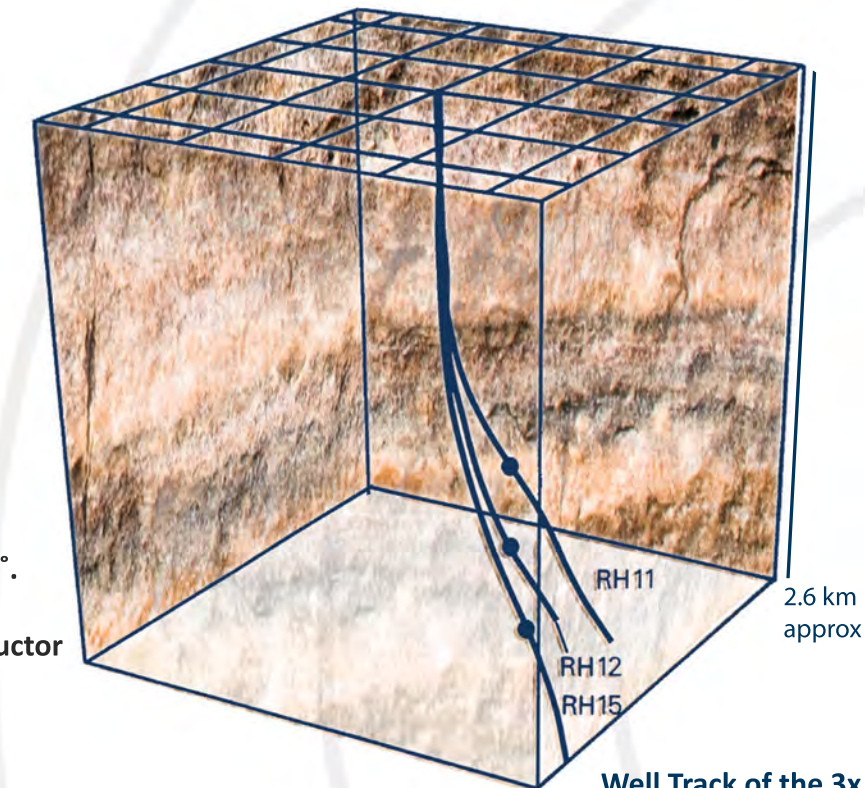
Casing	Measured Depth
RH11	2356m
RH12	2180m
RH15	2566m

with a 300 m open hole section inclined at 30°.

Four 300m deep boreholes with 6" casing at 20m.

One 150m, 8 1/2" uncased borehole inclined at 30°.

Logging winches and slave with a standard 7 conductor wireline



Schematic Map of the Quarry Site



Well Track of the 3x
~2.5 km MD
boreholes