

Project Title : **EXPANSION OF HDS4 PLANT AT PULAU BUKOM /
ULAR FOR SHELL EASTERN**

Owner : **Shell Eastern**

Engineer : **Chiyoda Corporation**

Main Contractors : **Leong Hin Piling Pte Ltd / Scan-Bilt Pte Ltd**

Contract Sum : **S\$ 112,770.00**

Period : **May 2004 to June 2004**

Scope of Works : **32 nos of 600mm diameter bored piles**

Bored pile lengths generally between 12 & 14m, socketing app. 2 to 3m into rock

As this site was sensitive to vibration, casing installation by boring rig rotary drive adaptor was adopted.

Very strict safety had to be adhered as the plant was operational during piling

Sub soil condition : **0 to 5/6m stiff silty clay**
5/6 to 10m v. stiff to hard sandy clay
10 to 12/14m v. dense silty sand
>12 to 14m sandstone

Stabilization fluid : **nil (dry)**

Major equipment deployed :

- Boring Rig Soilmec R16
- 50 ton crawler crane
- Rotary drive adaptor for casing installation
- Excavator

Tools :

- Auger, bucket & core barrel
- casing length 6m

