

## CORE DESCRIPTION

### **Core No. 1**

**Cut 1881.0 m –1889.0 m.**

**Recovered 1881.0 m-1887.6 m (6.6 m) or 82.5%**

1881.0-1882.1m

**CLAYSTONE** (95%) with minor laminated **SANDSTONE** (5%).

**CLAYSTONE:** dark grey to dark brown grey to grey black, very silty in part, very carbonaceous, common

coaly detritus, trace of very fine altered feldspar grains in part, common micromica, hard, subfissile.

**SANDSTONE:** Light to medium grey, very fine to fine, dominantly very fine, angular to subrounded,

moderately sorted, strong silica and weak calcite cements, abundant altered feldspar grains, common grey

brown lithics, trace of quartz grains, common black coal detritus, hard, no visual porosity, no oil fluorescence.

1882.1-1883.4m

**CLAYSTONE** (80%) laminated and thinly interbedded with **SANDSTONE** (20%).

**CLAYSTONE:** dark grey to dark brown grey to grey black, very silty in part, very carbonaceous, common

coaly detritus, trace of very fine altered feldspar grains in part, common micromica, hard, subfissile.

**SANDSTONE:** Light to medium grey, very fine to fine, dominantly very fine, angular to subrounded,

moderately sorted, strong silica and weak calcite cements, abundant altered feldspar grains, common grey

brown lithics, trace of quartz grains, common black coal detritus, hard, no visual porosity, no oil fluorescence.

**STRUCTURE:** Bedding - subhorizontal, common tight high angle calcite infilled fractures.

1883.4-1887.6m

**SANDSTONE** (100%) with minor laminations of slickensided **COAL** (trace).

**SANDSTONE:** light to medium grey to light brown grey, very fine to very coarse, dominantly medium to

coarse, angular to subrounded, very poorly sorted, strong silica cement, weak to moderate calcareous

cement, common white argillaceous matrix, quartzose, trace dark grey and red brown lithics, trace medium to dark grey clay clasts to 30mm, common black coal detritus, hard, poor visual porosity.

**COAL:** black, moderately argillaceous, often strongly slickensided, common micromica where argillaceous, vitreous, platy to subconchoidal fracture, hard, brittle.

**STRUCTURE:** Bedding – subhorizontal, common tightly cemented subvertical calcite infilled fractures.

**FLUORESCENCE:** The Sandstone has 50% patchy dull to moderately bright medium yellow to orange oil fluorescence, giving a dull to moderately bright light to medium yellow slow streaming to crush cut fluorescence, thin film residue.

## **Core No. 2**

**Cut 1889.0 m –1895.0 m.**

**Recovered 1887.6 m-1892.61 m (5.01 m) or 83.5%**

**Recovered stump left in hole from Core No. 1 with core no. 2**

1887.6m-1890.03m

**SANDSTONE** (95%) with minor thin interbeds of **SHALE** (5%)

**SHALE:** very dark grey to black, slightly silty, trace to common fine black carbonaceous matter, trace of calcite infilled fractures, common micromica, hard, subfissile.

**SANDSTONE:** light to medium grey to light brown grey, very fine to very medium, occasionally coarse to very coarse, dominantly medium coarse, angular to subrounded, very poorly sorted, strong silica cement, weak calcareous cement, common white argillaceous matrix, quartzose, trace dark grey, red brown and green lithics, trace garnet (?) trace medium to dark grey clay clasts to 20mm, trace to common black coal detritus, hard, poor visual porosity.

**FLUORESCENCE:** The Sandstone has 50% patchy dull to moderately bright medium yellow to orange oil fluorescence, giving a dull to moderately bright light to medium yellow slow streaming to crush cut fluorescence, thin film residue.

**STRUCTURE:** Bedding – subhorizontal, trace tightly cemented subvertical calcite infilled fractures.

1890.03-1892.61m

Massive **SHALE** (100%)

**SHALE:** very dark grey to dark brown grey to black, slightly silty, trace to common fine black carbonaceous matter, trace calcite infilled fractures, common micromica, hard, subfissile.

**STRUCTURE:** Bedding – subhorizontal.

1892.62-1895.0m

**NO RECOVERY**

