CORE LOGGING SYSTEM
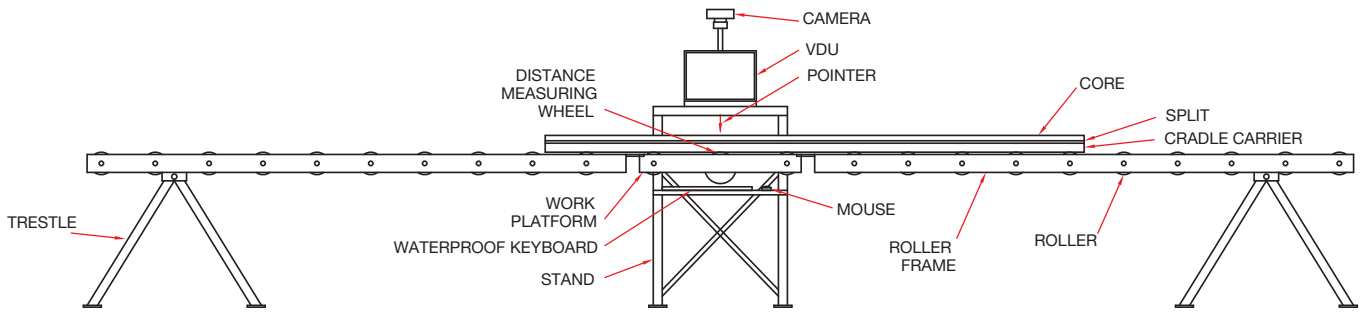
The Sigra Core Logging System is designed to speed the process of creating accurate core logs.

CAMERA
VDU
DISTANCE MEASURING WHEEL
POINTER
CORE
SPLIT
CRADLE CARRIER
TRESTLE
WORK PLATFORM
WATERPROOF KEYBOARD
STAND
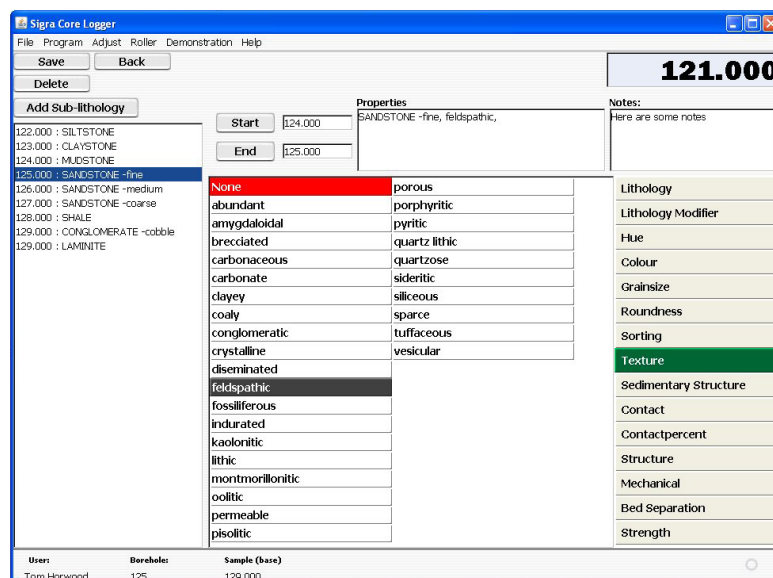MOUSE
ROLLER FRAME
ROLLER

Core Logging Roller Table

The system is designed to handle HQ core. The core is pulled and the split holding the core is either used directly or the core rolled into temporary splits. The use of splits minimises core disturbance. The split and core are then placed onto a cradle which is then be placed onto the roller table.

The cradle is moved along the roller table is and all depths are accurately measured to within a millimetre. Lithology and joint description are determined by the geologist using a menu driven software. The information is input to a database which also carries the depth information and photographs of the core. An integrated core log is created from this data.

Following logging the core may be either kept in its 3m long splits or moved to conventional core boxes.

Core Logging Database Software

Lithology   **F r**   **Gamma**   **SSD**

Depth	Description
230	230.170-230.493m [0.323m] : SANDSTONE Light grey lithic abrupt lwr contact low angled strong BP Very Strong RM Very Strong - occasional bands of carb wisps
	230.493-230.769m [0.276m] : SILTSTONE Mid grey erosionl lwr conct low angled medium strong BP Strong RM Strong - occasional bands of SANDSTONE Light grey 10%
231.0	230.769-231.223m [0.454m] : SILTSTONE Mid grey laminated abrupt lwr contact low angled medium strong BP Weak RM Strong - numerous bands of SANDSTONE Light grey 40%
	231.223-231.290m [0.067m] : SILTSTONE Mid grey fissile dessication crack low angled broken in places weak BP Very Weak RM Weak - (band of 5mm expanding clay at 231.092m)
	231.290-231.371m [0.081m] : SILTSTONE indurated Dark grey abrupt lwr contact strong BP Strong RM Very Strong
	231.371-231.683m [0.312m] : SILTSTONE Mid grey grad lwr contact faulted broken in places BP Weak RM Strong (Section from 231264 to231.319m in broken broken pieces fused together.)
232.0	231.683-232.253m [0.570m] : SILTSTONE Mid grey laminated abrupt lwr contact faulted weak medium strong BP Weak RM Strong (Multiple high angle fractures in section.) - numerous bands of SANDSTONE Light grey 30%
	232.253-232.967m [0.714m] : SILTSTONE Mid grey abrupt lwr contact faulted broken in places weak BP Weak RM Strong (Multiple high angle fractures along section.)
233.0	232.967-233.750m [0.783m] : SILTSTONE carbonaceous Mid to Dark grey abrupt lwr contact faulted broken in places weak BP Very Weak RM Weak (Section highly fractured.)
234.0	233.750-233.835m [0.085m] : COAL -dull mnr brts black weak BP Weak RM Strong - veins of CALCITE (occasional)
	233.750-234.460m [0.710m] : Coal Seam (Castor Upper)
	234.460-234.830m [0.370m] : CARB CLAYSTONE coaly Dark grey to black coaly grad lwr contact faulted weak BP Weak RM Strong - streaks of COAL VEINS
235.0	234.830-235.176m [0.346m] : SILTSTONE carbonaceous Dark grey slump beds irregularly bedded grad lwr contact faulted weak BP Strong RM Strong - occasional bands of COAL VEINS
	235.176-235.328m [0.152m] : SILTSTONE Mid grey erosionl lwr conct medium strong BP Strong RM Strong
	235.328-235.858m [0.530m] : SILTSTONE Mid grey thinly laminated abrupt lwr contact low angled medium strong BP Strong RM Strong - numerous bands of SANDSTONE Light grey 40%
236.0	235.858-235.996m [0.138m] : SILTSTONE carbonaceous Mid grey abrupt lwr contact low angled weak BP Weak RM Strong - (8mm band of crumbled siltstone reconstructed together at depth 235.736m.)
	235.996-236.080m [0.084m] : CARB CLAYSTONE coaly Dark grey to black abrupt lwr contact weak BP Weak RM Strong
	236.080-236.830m [0.750m] : Coal Seam (Castor Lower)
237.0	236.830-236.860m [0.030m] : CARB CLAYSTONE coaly Dark grey to black near horizontal weak BP Strong RM Strong - streaks of COAL VEINS
	236.860-238.109m [1.249m] : SILTSTONE Mid grey grad lwr contact low angled medium strong BP Strong RM Strong - occasional bands of COAL VEINS
238.0	238.109-239.875m [1.766m] : SILTSTONE Mid grey thinly bedded abrupt lwr contact low angled medium strong BP Strong RM Strong - numerous bands of SANDSTONE Light grey 10%
239.0	
240.0	239.875-240.000m [0.125m] : SANDSTONE creamy grey cross beds low angled strong BP Very Strong RM Very Strong - streaks of carb wisps Dark grey (numerous)

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Sample of Core Log Output