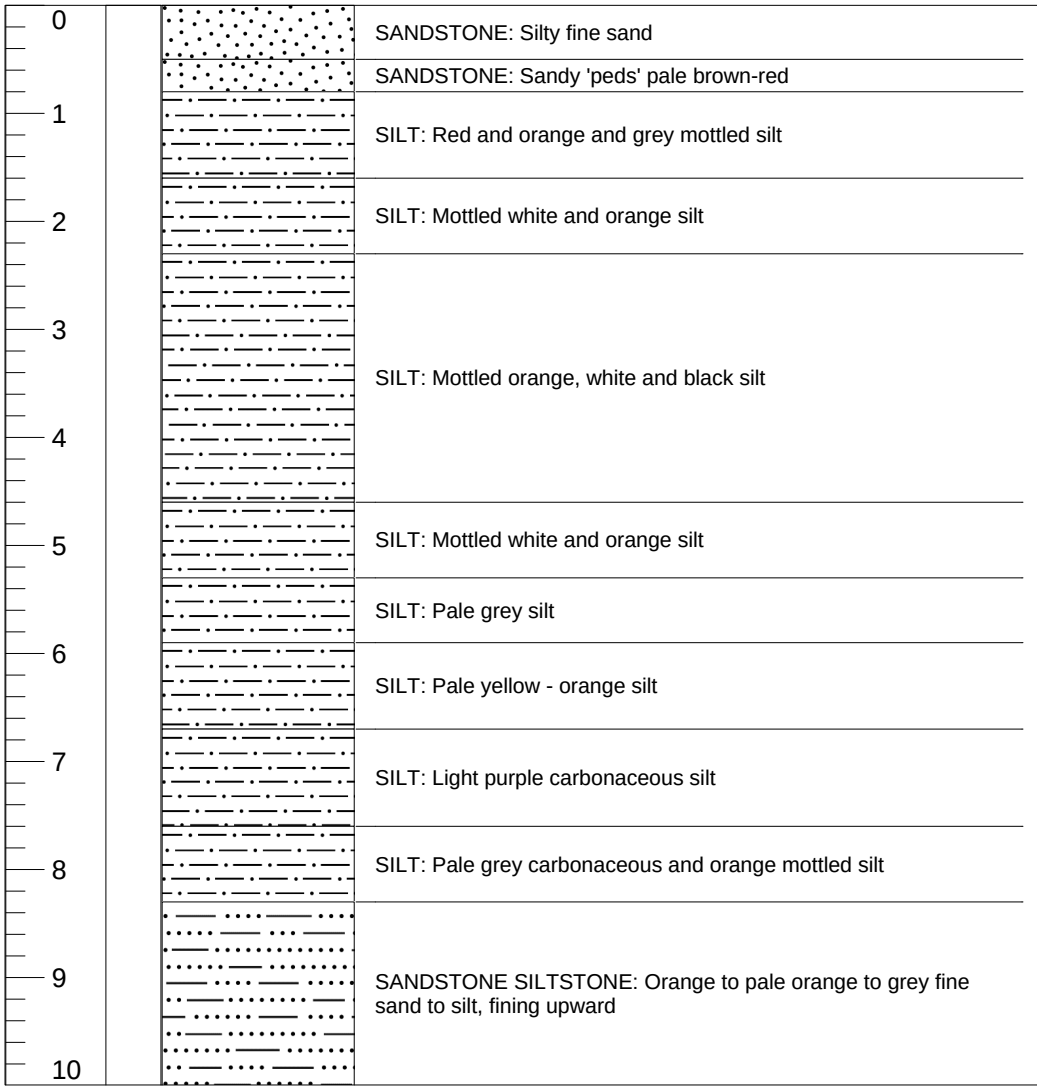
Sponsor: Mineral Resources Tasmania
Drill date: 18/04/2005
Drilling Method: Diamond
Azimuth: 0 degrees Dip: -90
Coordinates: 512685mE 5410664mN GDA94 Zone 55 MGA RL: 81m AHD

Launceston Group Stratigraphy

Logged by: AR Ezzy; Palynology: M MacPhail; Compiler: C Mazengarb

Drill length: 64.5m

Drillhole TIGER ID: 24725
Name: LV_IBH1_2005
Location:
Lawrence Vale



Description	Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments
SANDSTONE: Silty fine sand					
SANDSTONE: Sandy 'peds' pale brown-red					
SILT: Red and orange and grey mottled silt					
SILT: Mottled white and orange silt					
SILT: Mottled orange, white and black silt					
SILT: Mottled white and orange silt					
SILT: Pale grey silt					
SILT: Pale yellow - orange silt					
SILT: Light purple carbonaceous silt					
SILT: Pale grey carbonaceous and orange mottled silt					
SANDSTONE SILTSTONE: Orange to pale orange to grey fine sand to silt, fining upward					

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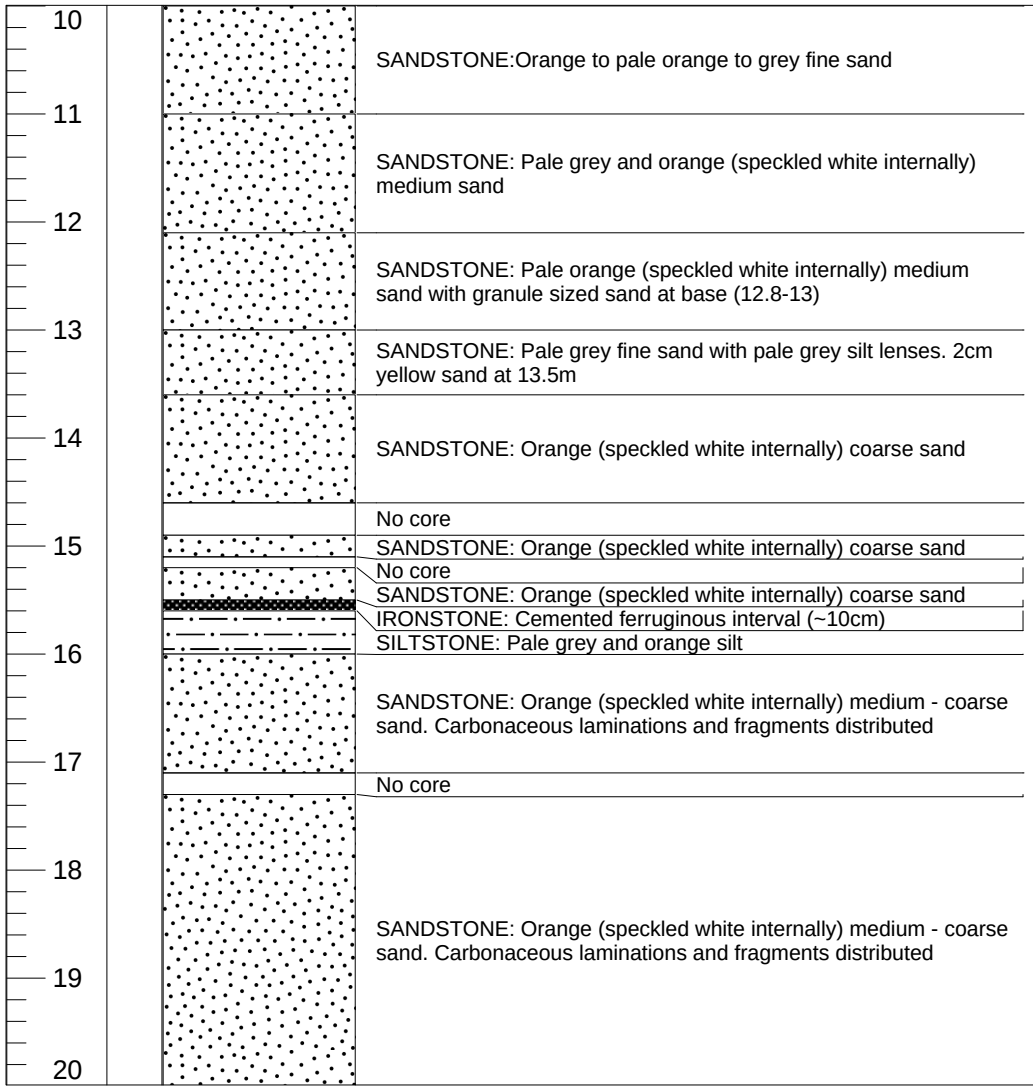

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Depth (m)	Stratigraphy	Lithology	Description	Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments
20			IRONSTONE: Cemented ferruginous interval (~7cm)					
			No core					
			SILTSTONE: Pale brown silt					
21			SANDSTONE: Medium sand, well sorted. Orange (speckeld white internally) 5cm red non-cemented bands					
			No core					
22			SANDSTONE: Medium sand, well sorted. Orange (speckeld white internally) 5cm red non-cemented bands					
23			No core					
24			SANDSTONE: Medium sand, well sorted. Orange (speckeld white internally) 5cm red non-cemented bands					
25			SANDSTONE: Orange fine sand, well sorted with interbedded grey silt at 5-10 cm intervals					
			No core					
26			SANDSTONE: Orange fine sand, well sorted with interbedded grey silt at 5-10 cm intervals					
			IRONSTONE: Cemented ferruginous interval (~5cm)					
			SANDSTONE: Orange fine sand (speckled white internally) increasingly mottled upwards					
27			SANDSTONE: Orange coarse sand					
			No core					
			SANDSTONE: Orange coarse sand					
28			SANDSTONE: Orange (speckled white internally) fine sand					
			No core					
			SILTSTONE: Grey silt with 2cm bands of cemented ferruginous interval					
29			SANDSTONE: Pale orange - orange fine sand, well sorted					
30								

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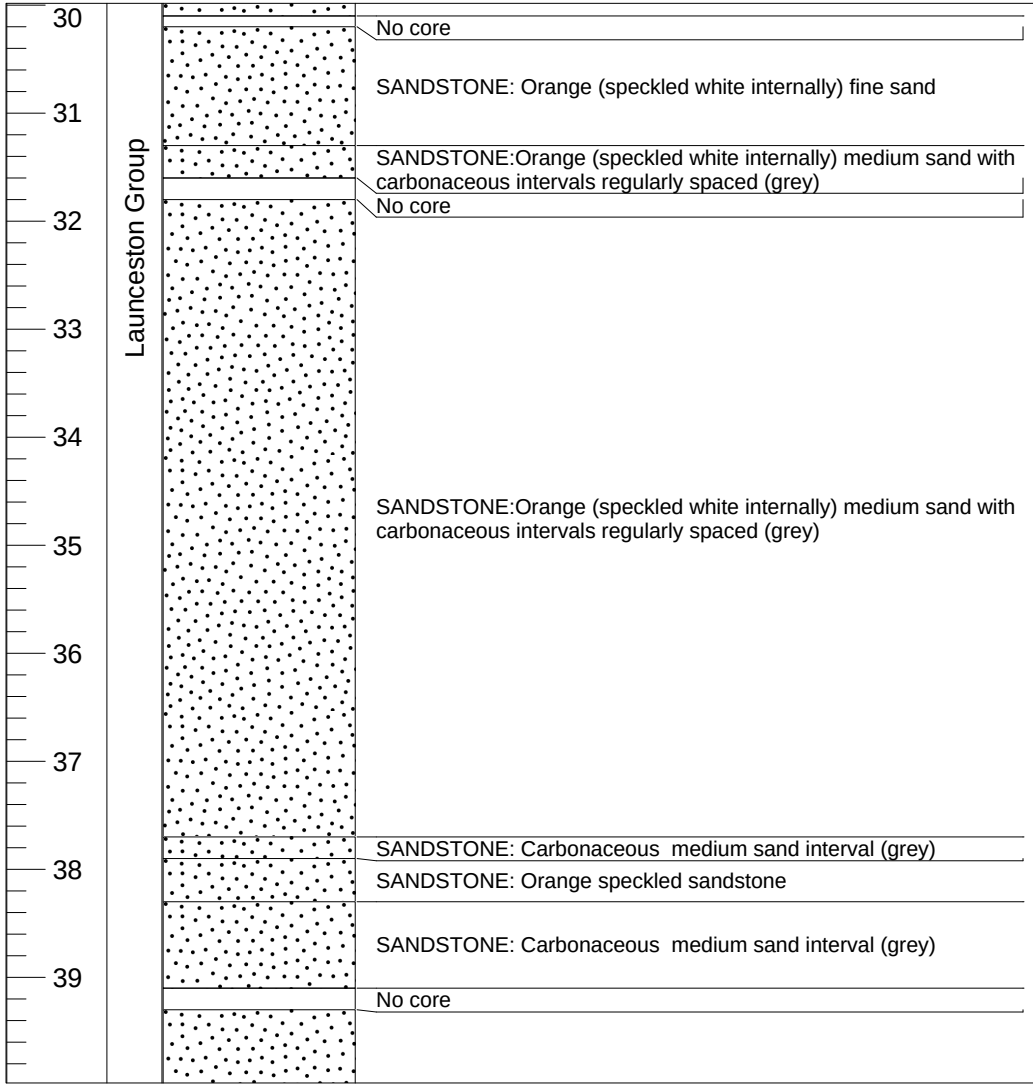

Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments

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Drill date: 18/04/2005
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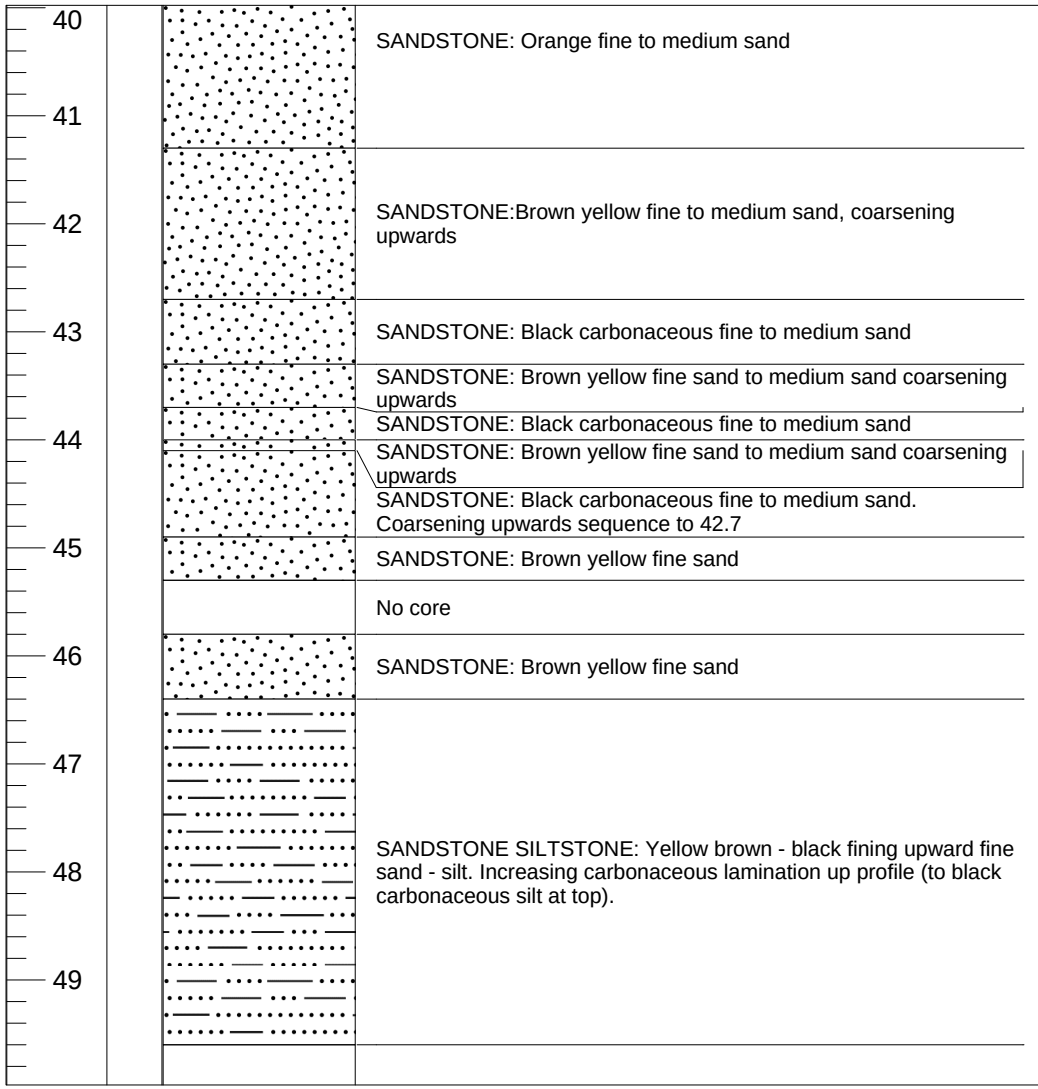

Depth (m)	Stratigraphy	Lithology	Description	Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments
40–41			SANDSTONE: Orange fine to medium sand					
41–42			SANDSTONE:Brown yellow fine to medium sand, coarsening upwards					
42–43			SANDSTONE: Black carbonaceous fine to medium sand	+ Palynology	*Lower Lygistepollenites balmei?*	Paleocene to Early Eocene	Freshwater fen	
43			SANDSTONE: Brown yellow fine sand to medium sand coarsening upwards					
43–44			SANDSTONE: Black carbonaceous fine to medium sand					
44			SANDSTONE: Brown yellow fine sand to medium sand coarsening upwards					
44–45			SANDSTONE: Black carbonaceous fine to medium sand. Coarsening upwards sequence to 42.7					
45–46			SANDSTONE: Brown yellow fine sand					
46			No core					
46–47			SANDSTONE: Brown yellow fine sand					
47–49			SANDSTONE SILTSTONE: Yellow brown - black fining upward fine sand - silt. Increasing carbonaceous lamination up profile (to black carbonaceous silt at top).	+ Palynology	*Lower Lygistepollenites balmei?*	Paleocene to Early Eocene	Freshwater fen	

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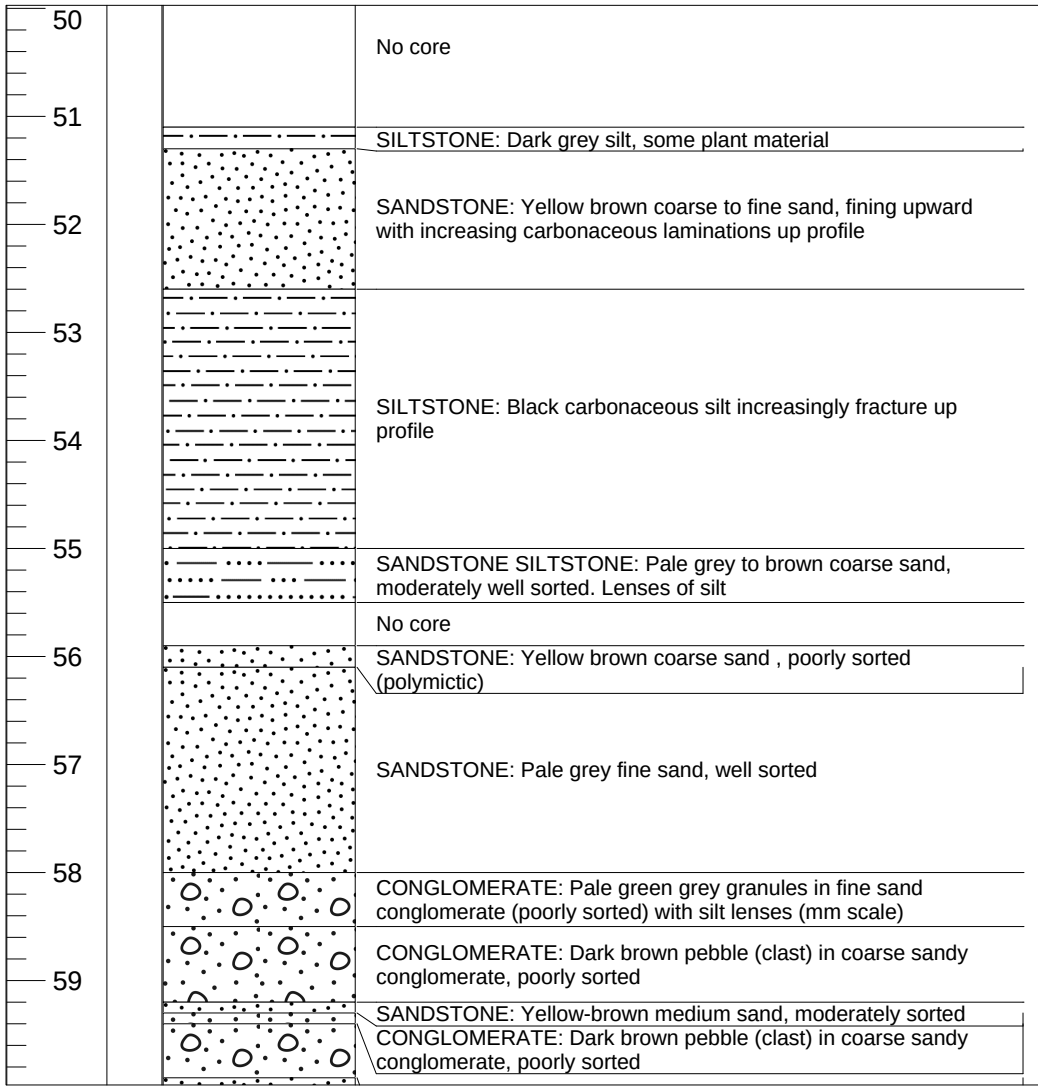

Depth (m)	Stratigraphy	Lithology	Description	Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments
50			No core					
51			SILTSTONE: Dark grey silt, some plant material	Palynology	*Lower Lygistepollenites balmei*	Early Paleocene to early Late Eocene	Freshwater fen	
52			SANDSTONE: Yellow brown coarse to fine sand, fining upward with increasing carbonaceous laminations up profile					
53			SILTSTONE: Black carbonaceous silt increasingly fracture up profile	Palynology	*Lower Lygistepollenites balmei*	Early Paleocene to early Late Eocene	Freshwater fen	
54								
55			SANDSTONE SILTSTONE: Pale grey to brown coarse sand, moderately well sorted. Lenses of silt	Palynology	*Lower Lygistepollenites balmei*	Early Paleocene to early Late Eocene	Freshwater fen	
			No core					
56			SANDSTONE: Yellow brown coarse sand , poorly sorted (polymictic)					
57			SANDSTONE: Pale grey fine sand, well sorted					
58			CONGLOMERATE: Pale green grey granules in fine sand conglomerate (poorly sorted) with silt lenses (mm scale)					
			CONGLOMERATE: Dark brown pebble (clast) in coarse sandy conglomerate, poorly sorted					
59			SANDSTONE: Yellow-brown medium sand, moderately sorted					
			CONGLOMERATE: Dark brown pebble (clast) in coarse sandy conglomerate, poorly sorted					

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Depth (m)	Stratigraphy	Lithology	Description	Dating method	Biostratigraphic zone or radiostratigraphic age	Geological timescale constraint	Environment	Comments
60			CONGLOMERATE: Brown-grey small pebble in coarse sand conglomerate. Poor to moderately sorted					
			SANDSTONE: Pale-grey medium sand, well sorted					
			CONGLOMERATE: Grey brown granule conglomerate, poorly sorted. 1cm laminations above 60.2					
61			SANDSTONE: Yellow brown medium sand, moderately sorted					
			CONGLOMERATE: Pale grey medium sand, well sorted. 10cm dolerite cobble					
			CONGLOMERATE: Yellow-grey granule conglomerate, moderately sorted					
62			CONGLOMERATE: Grey-brown granule conglomerate, poorly sorted					
			SANDSTONE: Pale yellow-grey, coarse sand, moderately sorted					
			CONGLOMERATE: Grey-brown granule conglomerate, poorly sorted					
63			SILTSTONE: Resinous red-brown silt with slickensides					
			SILTSTONE: Orange-red silt					
			SANDSTONE: Pale grey to orange medium sand, moderately sorted					
64			SANDSTONE: Pale-grey with red and green clasts, coarse sand. Moderately sorted					