



2551 - 3270' Calcareous Shale with Sandstone interbeds and Stringers
 (Lithologically identical to above unit, but character of some log distinctly different).
 From 2910 - 3060' a few stringers of Pyritic Sandstone and of Limestone.
SANDSTONE - grey green, very fine grained, grades to siltstone. Trace pyrite.
LIMESTONE - buff coloured, hard, micrite.

ORDOVICIAN KERRIDY SANDSTONE
 3270 - 3676' Very fine grained micaceous Sandstone grading to and thinly interbedded with minor Siltstone and Shale :-
SANDSTONE - light brown occasionally mottled green and dark brown. Consists of very fine to fine occasionally medium grained sub-rounded to sub-angular, clear to opaque partly light brown stained calcite coated quartz and a trace of mica and calcite grains. In parts grades to siltstone.
SILTSTONE - Red-brown, micaceous, calcite coating on grains, grades to fine grained Sandstone.
SHALE - Tan/light brown very silty grades to Siltstone, calcareous.

ORDOVICIAN DJAGMARA FORMATION
 3676 - 3710' Light brown argillaceous and calcareous Shale :-
SHALE - Tan/light brown argillaceous and very calcareous (marl).

3710 - 3870' Interbedded Sandstone, Shale and Limestone, all more or less glauconitic:-
UPPER SANDSTONE - Light grey, very hard. Consists of very fine to fine occasional medium grained well sorted sub-angular clear quartz and a trace of glauconite grains (occasionally abundant in fragments), a rare trace of pyrite. Very calcareous, (calcite coated grains).
LIMESTONE - light grey, glauconitic, micrite.
SHALE - dark greenish grey, hard silicified, very silty, glauconitic, non-calcareous at the top, grading down to very calcareous.
LOWER SANDSTONE - as for Upper Sandstone, but dark grey, very fine to coarse grained, poorly sorted.
 Samples very poor. Very hard slow-drilling layers resulted in samples consisting predominantly of powder. Lithology interpreted from occasional fragments and from wire-line logs.

3870 - 4042' Siltstone/with minor Sandstone and Limestone stringers in upper 50 feet :-
SILTSTONE - Dark grey-brown, shaley, blocky to slightly fissile, slightly micaceous, very slightly calcareous, occasionally sandy.
SANDSTONE - Grey-green, hard, glauconitic, very fine grained, slightly pyritic.
LIMESTONE - Light grey-green, micrite, glauconitic (?)

4042 - 4138' Non-Calcareous Shale :-
SHALE - Light-medium brown or light-dark grey, soft-firm, blocky argillaceous - sub-fissile silty, non-calcareous.

ADELAIDEAN MOUNT DOREEN FORMATION
 4138 - 4289' **LIMESTONE** - white to light to medium grey, blocky firm occasionally, hard micrite, with a rare trace of black specks and occasional pyrite blebs near the base.

4289 - 4346' **SHALE** - medium to dark grey, hard silicified, pyritic in parts, silty, slightly micaceous, slightly calcareous.

4346 - 4400' **LIMESTONE** - white to light grey samples consist of predominantly clear to opaque solution rounded coarse calcite spar and micrite fragments.

4400 - 4426' **SANDSTONE** - grey, hard, lithic, very calcareous. Consists of poorly sorted medium to very coarse grained sub-angular clear to opaque quartz, abundant calcite spar as grains and cement, 5-10% dark grey black lithic grains in a calcareous matrix, tight.

4426 - 4474' Dark Grey Shale grading down to Limestone
SHALE - dark grey, hard, silicified, lithic (contains dark grains and mica flakes), very calcareous grades down to:
LIMESTONE - dark grey, hard argillaceous, lithic as for above shale.

4474 - 4627' Sandstone with Shale pellets increasing with depth.
SANDSTONE - grey to light grey (sample loose grains). Consists of moderately sorted fine to medium predominantly fine grained (occasionally coarse grained, top of unit) sub-rounded to sub angular clear to opaque quartz, common calcite spar grains, 5-10% lithic grains predominantly rounded shale pellets, occasional glauconite and chloritized biotite and muscovite. Occasional fragments in sample indicate the sandstone is probably hard in a sparse calcareous matrix and tight. At the base the sandstone is as for 4400 - 4426'.
SHALE - below 4566' 10% of samples consist of dark grey, sub-fissile calcareous shale probably pellets and/or laminations.

ADELAIDEAN RINKABEENA SHALE
 4627 - 5286' **SHALE** - light to dark grey speckled, moderately soft to firm sub-fissile in parts, very slightly pyritic and slightly micromicaceous. In parts slightly calcareous.
 Common trace of calcite grains and fragments presumably nodules and fracture fillings.
 From 4740 - 4750' **SHALE** medium grey, hard, calcareous.

5286 - 5554' Shale with interbedded Sandstone
SHALE - as for 4627 - 5286'.
SANDSTONE - (samples loose grains) light grey, consists of fine occasionally medium grained sub-angular clear to opaque quartz, abundant calcite spar and trace of large muscovite flakes.

5554 - 5760' **SHALE** - dark grey, hard, silty, micaceous, slightly pyritic, slightly calcareous.

5760 - 5800' **SHALE** - dark grey, very calcareous, very argillaceous

5800 - 5890' **SHALE** - dark grey-black, blocky, micaceous, silty in parts occasional grades to **SILTSTONE**, slightly calcareous.

5890 - 5985' Non Calcareous Shale interbedded with Calcareous Shale increasing with depth
SHALE - dark grey speckled, firm sub-fissile, non-calcareous.

SHALE - dark grey, very calcareous occasionally grades to **MICRITE**, occasionally grades to black fissile **SHALE** with slicken sides(?). In parts silty, finely laminated.

5985 - 6080' **SHALE** - black fissile non-calcareous.

6080 - 6097' **SHALE** - medium grey, firm-hard, blocky.

PRECAMBRIAN PATHUNGALA BEDS

6097 - 6160' **ORTHOQUARTZITE** - very variable grainsize, poor samples, very hard metamorphosed sandstone, with occasional pebbles.

6160 - T.D. **ORTHOQUARTZITE** - intruded by **GRANITE**.