

## (Cape Sorell No. 1 Sample Descriptions Cont'd)

- 10370'-10380' Sh (60%): Dk brn; mod hd; mod fis; v/cliyey, varying to med dk gry-brn silty sh; all non-calc; dk brn sh variably blk carbonaceous, occas w/1-2 mm "vitrain" seams; tr micro-pyritic when high in coal ("vitrain"); crush cut (as w/all argillaceous seds since 10090') med straw w/v/brt and intense, mod translucent fluor. (Tr free forams.)
- Ss (40%): Gry wht to grnsh-wht; fn-med; v/hd; highly fri; highly calcareous w/kaolin-impregnated sparry calcite cmt; sharp, dk gry qtz (chalcedony); clr, frsted and frsted-wht qtz and feldspars; abund rned apparent mafic grains w/tr med grn chloritic grains; occas (tr to abund) micro-wht w/clr qtz and feldsp-grained ss frags having secondary silica outgrowths, giving a welded appearance; tr "welded" ss frags in grnsh-wht varieties; mod abund micro-dissem pyrite in qtz grains; drlg resid. of 40% unconsol.
- 10380'-10390' Ss (80%): Gry, grnsh-gry and grnsh gry-brn; vfn-fn; mod sorted; aub-ang to rned grains of qtz, feldsp w/minor mafic frags and abund disemminated micro-pyrite; abund lt-med grnsh, chloritic grains and frags; 70% as unconsol. drlg. resid w/ang, occas sharp clr to frsted qtz and feldsp and micro-pyrite aggregates; ss frag "matrix" siliceous w/abund kaol and secondary qtz. Sh (20%): Dk brn; mod bh; mod fis; v/cliyey; non-calc; variably blk carbonaceous; tr silty.
- Coal (Abund.): Blk, brilliant luster, vhd w/conchoidal frac; highly homogeneous; tr micro-pyritic; "clean" contact boundaries.
- 10415'- Spot Ss (50%): Vfn-med; gry-wht to grnsh-gry w/abund grnsh-brn; mod soft; highly fri; mod well-sorted within limited grain sizes; silica and Kaolin "matrix"; non-calc; 70% as unconsolidated drlg resid w/sharp to sub-ang qtz and feldsp grains, abund free wht and gry "slicked" Kaolin and micro-pyritic aggregates.
- Sh (30-40%): Med dk brn to dk brn; mod hd to mod soft; mod fis; non-calc; blk carbonaceous.
- Siltstn (19-20%): Lt brn to med brn; v/soft and sol; v/cliyey to mod superfine sdy; non-calc.