**AMUNGEE NW-1: CUTTINGS SAMPLE DESCRIPTIONS**

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| Depth  From  (m) | Depth  To  (m) | % | Lithology and Shows |
| **20" Conductor set at 13.09mRT (Saxon 185 RT)**  **Amungee NW-1 was spudded with Saxon Rig 185 at 06:00hrs on 7th September 2015. The 18.5" Conductor hole was drilled to 139m MDRT.** | | | |
|  |  |  | **Samples from 5–10m provided from 20" conductor hole section. Sample depths have been corrected to RT depths for Saxon Rig 185.** |
| 5 | 10 | 80  20 | CLAYSTONE: medium yellow, orange yellow, yellowish white, soft to moderately hard, plastic and sticky in part, blocky.  SILTSTONE: moderate reddish brown, orange red, trace white kaolinite clay, trace very finely arenaceous, firm, blocky. |
| 10 | 20 | 90  10 | CLAYSTONE: medium yellow orange, yellow grey, soft to firm, dispersive in part, occasionally moderately hard, trace lithics, blocky.  SILTSTONE: moderate reddish brown, orange red, trace lithics, firm, blocky. |
| 20 | 30 | 85  15 | CLAYSTONE: medium yellow orange, yellow grey, white in part, kaolinitic, soft to firm, dispersive in part, occasionally moderately hard, trace lithics, blocky.  SILTSTONE: moderate reddish brown, orange red, trace lithics, firm, blocky. |
| 30 | 40 | 100 | CLAYSTONE: (KAOLINITE): white, light pinkish grey very light grey, firm to friable, blocky. |
| 40 | 50 | 100 | CLAYSTONE: (KAOLINITE): white, light pinkish grey very light grey, firm to friable, blocky. |
| 50 | 60 | 100 | CLAYSTONE: light yellow white, yellow orange, pinkish grey, slightly silty in part, soft to firm, plastic, minor moderately hard, blocky. |
| 60 | 70 | 90  10 | CLAYSTONE: light pinkish grey, trace medium dark grey, soft to dispersive, plastic, medium dark grey predominantly moderately hard, blocky.  SANDSTONE: translucent, clear, common yellow Fe staining of grains, fine to medium grained, moderately sorted, angular to sub rounded, predominantly loose quartz grains, good inferred porosity, no fluorescence. |
| 70 | 80 | 60  40 | CLAYSTONE: light pinkish grey, trace medium dark grey, soft to dispersive, plastic, medium dark grey predominantly moderately hard, blocky.  SANDSTONE: translucent, clear, common yellow Fe staining of grains, fine to medium grained, moderately sorted, angular to sub rounded, predominantly loose quartz grains, good inferred porosity, no fluorescence. |
| 80 | 90 | 50  50 | CLAYSTONE: light pinkish grey, trace medium dark grey, soft to dispersive, plastic, medium dark grey predominantly moderately hard, blocky.  SANDSTONE: translucent, clear, common yellow Fe staining of grains, fine to medium grained, trace coarse, moderately sorted, angular to sub rounded, predominantly loose quartz grains, good inferred porosity, no fluorescence. |
| 90 | 100 | 90  10 | LIMESTONE: white, off white, yellowish white, very light grey, microcrystalline, moderately hard, blocky.  SANDSTONE: translucent, clear, minor yellow Fe staining, fine grained, well sorted, angular to sub rounded, predominantly loose quartz grains, good inferred porosity, no fluorescence. |
| 101 | 139 |  | **Total Lost Circulation from 101m.** |
|  |  |  | 18½" hole drilled to 139m MDRT. Drill string stuck in the hole at 70m while pulling out of hole. 2-7/8" wash down string run in hole. Drill string freed. Ran 16" conductor casing to 118m MDRT. |
| 139 | 284.5 |  | No returns.  14 ¾" Section TD at 284.5m MDRT.  10 ¾" casing set at 281.47m MDRT |
| 284.5 | 287 | 100 | VOLCANICS: medium to dark grey, weathered to reddish brown laterite, minor feldspar phenocrysts, rare light grey clays, rare greenish grey inclusions, very hard, massive. |
| 287 | 290 | 100 | VOLCANICS: weathered, reddish brown, occasionally medium dark grey, rare light yellowish clays, trace greenish grey inclusions, very hard, massive. |
| 290 | 300 | 100 | VOLCANICS: weathered, medium reddish brown, medium to dark grey, common yellow orange staining, rare cream feldspars, trace calcite fragments, very hard, massive. |
| 300 | 310 | 100 | VOLCANICS: weathered, medium reddish brown, medium to dark grey, common yellow orange staining, rare cream feldspars, trace calcite fragments, very hard, massive. |
| 310 | 314  Spot | 40  60 | VOLCANICS: as above.  SANDSTONE: translucent, clear, occasionally light green and light yellow staining, medium to coarse, fair sorting, sub angular to rounded, trace calcareous cement in medium aggregates, coarse grains are loose, good inferred porosity, no fluorescence.  Water Flow 25L/7 seconds |
| 310 | 320 | 100 | SANDSTONE: red orange staining, clear, translucent, medium to coarse grained, moderately sorted, sub rounded to rounded, no visible cement or matrix, good inferred porosity, no fluorescence. |
| 320 | 330 | 100 | SANDSTONE: red orange staining, clear, translucent, fine to coarse predominantly medium grained, moderately sorted, sub rounded to rounded, no visible cement or matrix, loose, good inferred porosity, no fluorescence. |
| 330 | 340 | 100 | SANDSTONE: red orange staining, clear, translucent, fine to coarse predominantly medium grained, moderately sorted, sub rounded to rounded, no visible cement or matrix, loose, good inferred porosity, no fluorescence. |
| 340 | 350 | 100 | SANDSTONE: translucent, clear, common red orange staining, fine to coarse predominantly medium grained, moderately sorted, sub rounded to rounded, predominantly loose, trace calcareous cement, good inferred porosity, no fluorescence. |
| 350 | 360 | 100 | SANDSTONE: translucent, clear, common red orange staining, fine to coarse predominantly medium grained, moderately sorted, sub rounded to rounded, predominantly loose, trace calcareous cement, good inferred porosity, no fluorescence. |
| 360 | 370 | 100 | SANDSTONE: translucent, clear, common orange red staining, fine to occasionally coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace calcareous cement, predominantly loose, good inferred porosity, no fluorescence. |
| 370 | 380 | 100 | SANDSTONE: translucent, clear, common orange red staining, fine to occasionally coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace calcareous cement, predominantly loose, good inferred porosity, no fluorescence. |
| 380 | 390 | 100 | SANDSTONE: translucent, clear, common orange red staining, fine to occasionally coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace calcareous cement, predominantly loose, good inferred porosity, no fluorescence. |
| 390 | 400 | 100 | SANDSTONE: translucent, clear, common orange red staining, fine to occasionally coarse, predominantly medium, sub rounded to rounded, moderately well sorted, trace calcareous cement, predominantly loose, good inferred porosity, no fluorescence. |
| 400 | 410 | 100 | SANDSTONE: translucent, clear, white, fine to coarse predominantly medium grained, moderately well sorted, sub rounded to rounded, predominantly loose, trace calcareous cement, good inferred porosity, no fluorescence. |
| 410 | 420 | 100 | SANDSTONE: translucent, clear, white, fine to coarse predominantly medium grained, moderately well sorted, sub rounded to rounded, predominantly loose, trace calcareous cement, good inferred porosity, no fluorescence. |
| 420 | 425 | trace  100 | CLAYSTONE: light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, trace nodular pyrite, trace black lithics, moderately hard, dispersive in part, blocky to sub fissile. |
| 425 | 430 | 10  90 | CLAYSTONE: light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, trace nodular pyrite, trace black lithics, moderately hard, dispersive in part, blocky to sub fissile. |
| 430 | 435 | 20  80 | CLAYSTONE: light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, trace nodular pyrite, trace black lithics, moderately hard, dispersive in part, blocky to sub fissile. |
| 435 | 440 | 10  90 | CLAYSTONE: light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, trace nodular pyrite, trace black lithics, moderately hard, dispersive in part, blocky to sub fissile. |
| 440 | 445 | 10  90 | CLAYSTONE: light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, trace nodular pyrite, trace black lithics, moderately hard, dispersive in part, blocky to sub fissile. |
| 445 | 450 | 30  70 | CLAYSTONE: light greenish grey, light to medium grey, orange red, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, moderately hard, dispersive in part, blocky to sub fissile. |
| 450 | 455 | 10  90 | CLAYSTONE: light grey, light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, moderately hard, blocky to sub fissile. |
| 455 | 460 | 20  80 | CLAYSTONE: light grey, light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, moderately hard, blocky to sub fissile. |
| 460 | 465 | 80  20 | CLAYSTONE: light grey, light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, moderately hard, blocky to sub fissile. |
| 465 | 470 | 90  10 | CLAYSTONE: light grey, light greenish grey, silty in part, rare micro mica, moderately hard, sub fissile to occasionally sub blocky.  SILTSTONE: medium red brown, dusky red, argillaceous in part with clay component washing from sample, minor micro mica, moderately hard, blocky to sub fissile. |
| 470 | 475 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 475 | 480 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 480 | 485 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 485 | 490 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 490 | 495 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 495 | 500 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 500 | 505 | 100 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile. |
| 505 | 510 | 80  20 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 510 | 515 | 60  40 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 515 | 520 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 520 | 525 | 80  20 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 525 | 530 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 530 | 535 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 535 | 540 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 540 | 545 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 545 | 550 | 80  20 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous in part, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 550 | 555 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous in part, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 555 | 560 | 90  10 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous in part, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 560 | 565 | 80  20 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous in part, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 565 | 570 | 80  20 | CLAYSTONE: light grey, light to medium grey, silty in part, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous in part, rare micro mica, minor lithics, moderately hard, sub blocky to sub fissile. |
| 570 | 575 | 70  30 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace lithics, moderately hard, commonly soft to dispersive, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile. |
| 575 | 580 | 65  20  15 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace lithics, moderately hard, commonly soft to dispersive, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent in part, very fine, moderately well sorted, sub rounded to sub angular, moderate to strong siliceous cement, trace weak calcareous cement, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 580 | 585 | 65  25  10 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace lithics, moderately hard, commonly soft to dispersive, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent in part, very fine, moderately well sorted, sub rounded to sub angular, moderate to strong siliceous cement, trace weak calcareous cement, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 585 | 590 | 55  30  15 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace lithics, moderately hard, commonly soft to dispersive, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent in part, very fine, moderately well sorted, sub rounded to sub angular, moderate to strong siliceous cement, trace weak calcareous cement, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 590 | 595 | 70  20  10 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, trace micro mica, trace lithics, dominantly firm to moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, trace to locally common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent, frosted in part, very fine, moderately well sorted, sub rounded to sub angular, moderate to strong siliceous cement, trace weak calcareous cement, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 595 | 600 | 65  20  10 | CLAYSTONE: very light grey to light grey, moderate red brown in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace lithics, moderately hard, commonly soft to dispersive, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, very finely arenaceous grading to very fine SANDSTONE in part, common micro mica, minor greenish black lithics, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent in part, very fine, moderately well sorted, sub rounded to sub angular, moderate to strong siliceous cement, trace weak calcareous cement, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 600 | 605 | 60  40 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part. |
| 605 | 610 | 60  40 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part. |
| 610 | 615 | 70  30 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part. |
| 615 | 620 | 80  20 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part. |
| 620 | 625 | 90  10 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part. |
| 625 | 630 | 85  10  5 | CLAYSTONE: moderate reddish brown to dusky red, light grey to greenish grey in part, trace to locally common micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, sub blocky.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, trace dark green to black lithics, moderately hard, hard in part, dominantly sub blocky, sub fissile in part.  SANDSTONE: white, translucent, very fine to fine, well sorted, sub rounded, moderate to strong siliceous cement, rare off white silty matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 630 | 635 | 90  10  Trace | CLAYSTONE: moderate reddish brown to dusky red, commonly light grey to greenish grey, trace micro mica, dominantly moderately hard, soft to dispersive in part, sub blocky to sub fissile.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, dominantly sub blocky, sub fissile in part.  SANDSTONE: white, translucent, very fine to fine, well sorted, sub rounded, moderate to strong siliceous cement, rare off white silty matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 635 | 640 | 90  5  5 | CLAYSTONE: moderate reddish brown to dusky red, commonly light grey to greenish grey, trace micro mica, dominantly moderately hard, soft to dispersive in part, sub blocky to sub fissile.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, dominantly sub blocky, sub fissile in part.  SANDSTONE: white, translucent, very fine to fine, well sorted, sub rounded, moderate to strong siliceous cement, rare off white silty matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 640 | 645 | 85  5  10 | CLAYSTONE: moderate reddish brown to dusky red, commonly light grey to greenish grey, rare medium light grey, rare micro mica, dominantly moderately hard, soft to dispersive in part, hard in part, sub blocky to sub fissile.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, sub blocky.  SANDSTONE: white, translucent, very fine to fine, well sorted, sub rounded, moderate to strong siliceous cement, trace weak calcareous cement, rare off white silty matrix, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 645 | 650 | 75  10  15 | CLAYSTONE: moderate reddish brown to dusky red, commonly light grey to greenish grey, rare medium light grey, rare micro mica, dominantly moderately hard, soft to dispersive in part, hard in part, sub blocky to sub fissile.  SILTSTONE: greenish grey, medium to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, sub blocky.  SANDSTONE: white, translucent, very fine to fine, well sorted, sub rounded, moderate to strong siliceous cement, trace weak calcareous cement, rare off white silty matrix, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 650 | 655 | 90  Trace  10 | CLAYSTONE: moderate reddish brown to dusky red, commonly light grey to greenish grey, rare medium light grey, silty in part, rare micro mica, dominantly moderately hard, soft to dispersive in part, hard in part, sub blocky to sub fissile.  SILTSTONE: medium grey to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, sub blocky.  SANDSTONE: white, translucent, very fine to fine, trace medium, moderately well sorted, sub rounded, moderate to strong siliceous cement, rare off white silty matrix, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 655 | 660 | 85  5  10 | CLAYSTONE: greenish grey, light grey to medium light grey, commonly moderate reddish brown to dusky red, silty in part, occasional micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, hard in part, dominantly sub fissile to sub blocky.  SILTSTONE: medium grey to medium light grey in part, argillaceous grading to claystone in part, arenaceous in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, sub blocky.  SANDSTONE: white, translucent, very fine to fine, trace medium, moderately well sorted, sub rounded, moderate to strong siliceous cement, rare off white silty matrix, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 660 | 665 | 90  10 | CLAYSTONE: greenish grey, light grey to medium light grey, commonly moderate reddish brown to dusky red, occasionally very light grey to white, silty in part occasional micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, hard in part, dominantly sub fissile to sub blocky.  SILTSTONE: medium grey to medium light grey in part, argillaceous grading to claystone in part, common micro mica, trace disseminated pyrite, moderately hard, hard in part, sub blocky. |
| 665 | 670 | 90  10 | CLAYSTONE: greenish grey, light grey to medium light grey, commonly moderate reddish brown to dusky red, occasionally very light grey to white, silty in part, occasional micro mica, rare disseminated pyrite, dominantly moderately hard, soft to dispersive in part, hard in part, dominantly sub fissile to sub blocky.  SILTSTONE: medium grey to medium light grey in part, argillaceous grading to claystone in part, common micro mica, moderately hard, hard in part, sub blocky. |
| 670 | 675 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, rare reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace disseminated pyrite, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous in part, minor micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 675 | 680 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, rare reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace disseminated pyrite, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous in part, minor micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 680 | 685 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, rare reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, trace disseminated pyrite, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous in part, minor micro mica, trace lithics, moderately hard, sub blocky to sub fissile. |
| 685 | 690 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile. |
| 690 | 695 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile. |
| 695 | 700 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile. |
| 700 | 705 | 80  20 | CLAYSTONE: light greenish grey, light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, becoming reddish brown, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile. |
| 705 | 710 | 90  10 | CLAYSTONE: light greenish grey, light to medium grey, reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, becoming reddish brown, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, clay component washing from samples, sub blocky to sub fissile. |
| 710 | 715 | 40  40  20 | CLAYSTONE: light greenish grey, light to medium grey, reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, washing from samples, sub blocky to sub fissile.  SILTSTONE: reddish brown, light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, cream, very light grey, fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 715 | 720 | 10  20  70 | CLAYSTONE: light greenish grey, light to medium grey, reddish brown, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, washing from samples, sub blocky to sub fissile.  SILTSTONE: reddish brown, light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, cream, very light grey, fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, very poor visual porosity, **Fluorescence: 5% moderately bright yellow white spotted, no direct cut, faint white crush cut, faint white ring residue**. |
| 720 | 725 | 60  10  30 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SILTSTONE: reddish brown, light to medium grey, argillaceous grading to CLAYSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, tight visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 725 | 730 | 70  30 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, tight visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 730 | 735 | 60  40 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, tight visual porosity, **Fluorescence: 5% moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 735 | 740 | 20  80 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, moderately hard, tight visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 740 | 745 | 70  30 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, moderately hard, tight visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 745 | 750 | 90  10 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, firm to moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 750 | 755 | 80  10  10 | CLAYSTONE: light to medium grey, silty in part grading to argillaceous SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: reddish brown, argillaceous grading to silty CLAYSTONE, trace micro mica, firm to moderately hard, blocky to predominantly sub fissile.  SANDSTONE: very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 755 | 760 | 40  40  20 | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, reddish brown in part, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, off white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white to light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 760 | 765 | 30  30  40 | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, off white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white to light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 765 | 770 | 20  40  40 | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, off white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white to light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 770 | 775 | 90  trace  10 | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, off white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white to light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 775 | 780 | 80  20  trace | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, off white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, common white to light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 780 | 785 | 80  20 | CLAYSTONE: light to medium grey, light greenish grey, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: light to medium grey, brown grey, argillaceous grading to silty CLAYSTONE, trace micro mica, trace lithics, moderately hard, blocky to sub fissile, no fluorescence. |
| 785 | 790 | 100 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 790 | 795 | 90  10 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: very light grey to light grey, fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 795 | 800 | 100 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 800 | 805 | 30  70 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, common white to very light grey argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, **Fluorescence: 10% moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
| 805 | 810 | 30  70 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, common white to very light grey argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, **Fluorescence: 5% moderately bright yellow white spotted, no direct cut, very faint white crush cut, no residue.** |
|  |  |  | **Sample collected from belly spring of DST 1 tools 795-815m (9x5x1cm):**  SANDSTONE: off white, very fine, very well sorted, sub angular to occasionally angular, strong siliceous cement, common off white argillaceous matrix, trace lithics, hydrocarbon smell, hard, tight vis porosity, fluorescence. |
| 810 | 815 | 80  20 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, common white to very light grey argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, **Fluorescence: trace as above.** |
| 815 | 820 | 80  20 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, common white to very light grey argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, **Fluorescence: trace as above.** |
| 820 | 825 | 90  10 | CLAYSTONE: medium grey, occasionally medium dark grey, grading to SILTSTONE in part, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, common white to very light grey argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, **Fluorescence: trace as above.** |
| 825 | 830 | 100 | CLAYSTONE: light to predominantly medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 830 | 835 | 90  10 | CLAYSTONE: light to predominantly medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: very light grey, very fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, abundant very light grey argillaceous matrix, grading to SILTSTONE, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 835 | 840 | 70  20  10 | CLAYSTONE: light to predominantly medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium grey, argillaceous grading to and interbedded with CLAYSTONE, trace micro mica, moderately hard, sub blocky to occasionally sub fissile.  SANDSTONE: very light grey, very fine grained, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, abundant very light grey argillaceous matrix, grading to SILTSTONE, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 840 | 845 | 70  30 | CLAYSTONE: light to predominantly medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium grey, argillaceous grading to and interbedded with CLAYSTONE, trace micro mica, moderately hard, sub blocky to occasionally sub fissile. |
| 845 | 850 | 100 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 850 | 855 | 100 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 855 | 860 | 50  50 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 860 | 865 | 60  40 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 865 | 870 | 60  40 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 870 | 875 | 60  40 | CLAYSTONE: medium grey, silty grading to argillaceous SILTSTONE, trace micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, moderately strong siliceous cement, abundant white argillaceous matrix, trace micro mica, moderately hard, tight visual porosity, no fluorescence. |
| 875 | 880 | 20  80 | CLAYSTONE: medium dark grey to dark grey, grey black in part, very finely arenaceous, moderately hard to hard, blocky to sub fissile.  SANDSTONE: white, translucent, clear, fine to occasionally medium grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white argillaceous matrix, friable to loose in part, occasionally moderately hard, poor to fair inferred porosity, no fluorescence. |
| 880 | 885 | 10  90 | CLAYSTONE: medium dark grey to dark grey, grey black in part, very finely arenaceous, moderately hard to hard, blocky to sub fissile.  SANDSTONE: white, translucent, clear, fine to medium grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white argillaceous matrix, friable to loose in part, occasionally moderately hard, poor to fair inferred porosity, no fluorescence. |
| 885 | 890 | 10  90 | CLAYSTONE: medium dark grey to dark grey, grey black in part, very finely arenaceous, moderately hard to hard, blocky to sub fissile.  SANDSTONE: white, translucent, clear, fine to medium grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white argillaceous matrix, friable to loose in part, occasionally moderately hard, poor to fair inferred porosity, no fluorescence. |
| 890 | 895 | 10  90 | CLAYSTONE: medium dark grey to dark grey, grey black in part, very finely arenaceous, moderately hard to hard, blocky to sub fissile.  SANDSTONE: white, translucent, clear, fine to medium grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white argillaceous matrix, friable to loose in part, occasionally moderately hard, poor to fair inferred porosity, no fluorescence. |
| 895 | 900 | 10  90 | CLAYSTONE: medium dark grey to dark grey, grey black in part, very finely arenaceous, moderately hard to hard, blocky to sub fissile.  SANDSTONE: white, translucent, clear, fine to medium grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white argillaceous matrix, friable to loose in part, occasionally moderately hard, poor to fair inferred porosity, no fluorescence. |
| 900 | 905 | 100 | SANDSTONE: translucent, clear, white, medium to minor coarse grained, moderately sorted, sub angular to sub rounded, moderate siliceous cement, rare white argillaceous matrix, friable to loose, moderately hard aggregates in part, fair inferred porosity, no fluorescence. |
| 905 | 910 | 100 | SANDSTONE: translucent, clear, white, medium to minor coarse grained, moderately sorted, sub angular to sub rounded, moderate siliceous cement, rare white argillaceous matrix, friable to loose, moderately hard aggregates in part, fair inferred porosity, no fluorescence. |
| 910 | 915 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 915 | 920 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 920 | 925 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 925 | 930 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 930 | 935 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 935 | 940 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, **Fluorescence: trace moderately bright yellow white spotted, no direct cut, very faint white crush cut, thin faint white ring residue**. |
| 940 | 945 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, no fluorescence. |
| 945 | 950 | 10  90 | CLAYSTONE: very light grey to light grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, fine to medium grained, sub angular to sub rounded, moderately strong siliceous cement, minor white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, no fluorescence. |
| 950 | 955 | 30  70 | CLAYSTONE: very light grey to light grey, occasionally medium grey, trace micro mica, moderately hard, sub fissile.  SANDSTONE: white, translucent, clear, fine to occasionally medium grained, sub angular to sub rounded, moderately strong siliceous cement, common white argillaceous matrix, friable to moderately hard aggregates, poor visual porosity, no fluorescence. |
| 955 | 960 | 70  30 | CLAYSTONE: dark grey, medium dark brownish grey, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 960 | 965 | 80  20 | CLAYSTONE: dark grey, medium dark brownish grey, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 965 | 970 | 80  20 | CLAYSTONE: dark grey, medium dark brownish grey, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 970 | 975 | 80    20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to greenish grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SANDSTONE: white, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 975 | 980 | 70  10  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 980 | 985 | 70  10  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 985 | 990 | 70  10  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 990 | 995 | 70  10  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, tight visual porosity, no fluorescence. |
| 995 | 1000 | 70  20  10 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1000 | 1005 | 70  20  10 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1005 | 1010 | 70  20  10 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, sub blocky to sub fissile.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light brownish grey argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1010 | 1015 | 90  Trace  10 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor light grey to off white argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1015 | 1020 | 80  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey in part, silty grading to SILTSTONE, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor to locally common light grey to off white argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1020 | 1025 | 70  30 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey, occasionally light grey, silty grading to SILTSTONE in part, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SANDSTONE: white, translucent, very light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor to locally common light grey to off white argillaceous matrix, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1025 | 1030 | 70  10  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey, occasionally light grey, silty grading to SILTSTONE in part, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SILTSTONE: medium light grey to medium grey, medium bluish grey in part, argillaceous, trace micro mica, firm to moderately hard, dominantly sub fissile to occasionally sub blocky.  SANDSTONE: white, translucent, very light grey to medium light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor to locally common light grey to off white argillaceous matrix, trace mica flecks, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1030 | 1035 | 80  20 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey, occasionally light grey, silty grading to SILTSTONE in part, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SANDSTONE: white, translucent, very light grey to medium light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor to locally common light grey to off white argillaceous matrix, trace mica flecks, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1035 | 1040 | 70  30 | CLAYSTONE: dark grey, medium dark brownish grey, medium light grey to medium grey, occasionally light grey, silty grading to SILTSTONE in part, minor micro mica, moderately hard, occasionally soft to dispersive, sub fissile to sub blocky.  SANDSTONE: white, translucent, very light grey to medium light grey in part, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, minor to locally common light grey to off white argillaceous matrix, trace mica flecks, moderately hard, occasionally very hard, tight visual porosity, no fluorescence. |
| 1040 | 1045 | 60  40 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, white, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, common very light grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1045 | 1050 | 70  30 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, white, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, common very light grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1050 | 1055 | 80  20 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: very light grey, white, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, common very light grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1055 | 1060 | 80  20 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, very light brownish grey, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, common light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1060 | 1065 | 70  30 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: very light brown to off white, white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1065 | 1070 | 70  30 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: very light brown to off white, white, very light grey, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1070 | 1075 | 70  30 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1075 | 1080 | 80  20 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1080 | 1085 | 80  20 | CLAYSTONE: medium dark grey, medium grey, medium dark brownish grey, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, very fine to fine grained, well sorted, sub angular to sub rounded, strong siliceous cement, abundant light brownish grey to white argillaceous matrix, hard, trace micro mica, tight visual porosity, no fluorescence. |
| 1085 | 1090 | 80  20 | CLAYSTONE: medium dark grey to dark grey, dark grey black in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, light brownish grey, very fine to fine grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, common very light grey to white argillaceous matrix, moderately hard, occasionally friable to loose, poor visual porosity, no fluorescence. |
| 1090 | 1095 | 80  20 | CLAYSTONE: medium dark grey to dark grey, dark grey black in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, light brownish grey, very fine to fine grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, common very light grey to white argillaceous matrix, moderately hard, occasionally friable to loose, poor visual porosity, no fluorescence. |
| 1095 | 1100 | 90  10 | CLAYSTONE: medium dark grey to dark grey, dark grey black in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, light brownish grey, very fine to fine grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, common very light grey to white argillaceous matrix, moderately hard, occasionally friable to loose, poor visual porosity, no fluorescence. |
| 1100 | 1105 | 90  10 | CLAYSTONE: medium dark grey to dark grey, dark grey black in part, silty in part grading to argillaceous SILTSTONE, rare micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, light brownish grey, very fine to fine grained, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, common very light grey to white argillaceous matrix, moderately hard, occasionally friable to loose, poor visual porosity, no fluorescence. |
| 1105 | 1110 | 90  10 | CLAYSTONE: medium dark grey to dark grey black, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: light brownish grey, very light brown, very fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, abundant very light brownish grey argillaceous matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 1110 | 1115 | 90  10 | CLAYSTONE: medium dark grey to dark grey black, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: light brownish grey, very light brown, very fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, abundant very light brownish grey argillaceous matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 1115 | 1120 | 90  10 | CLAYSTONE: medium dark grey to dark grey black, silty in part grading to argillaceous SILTSTONE, trace micro mica, moderately hard, blocky to sub fissile.  SANDSTONE: light brownish grey, very light brown, very fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, abundant very light brownish grey argillaceous matrix, moderately hard, very poor visual porosity, no fluorescence. |
| 1120 | 1125 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1125 | 1130 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1130 | 1135 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1135 | 1140 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1140 | 1145 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1145 | 1150 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1150 | 1155 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 1155 | 1160 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile. |
| 1160 | 1165 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile. |
| 1165 | 1170 | 100 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile. |
| 1170 | 1175 | 80  20 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1175 | 1180 | 60  40 | CLAYSTONE: very dark grey, dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1180 | 1185 | 60  40 | CLAYSTONE: medium grey, medium dark grey, very dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1185 | 1190 | 60  40 | CLAYSTONE: medium grey, medium dark grey, very dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1190 | 1195 | 50  50 | CLAYSTONE: medium grey, medium dark grey, very dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1195 | 1200 | 80  20 | CLAYSTONE: medium grey, medium dark grey, very dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, common light grey argillaceous matrix, trace lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1200 | 1205 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, translucent, clear, very fine to fine grained, trace medium, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1205 | 1210 | 60  40 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, translucent, clear, very fine to fine grained, trace medium, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1210 | 1215 | 50  50 | CLAYSTONE: medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 1215 | 1220 | 70  30 | CLAYSTONE: medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 1220 | 1225 | 80  20 | CLAYSTONE: medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, very fine to fine grained, sub angular to sub rounded, well sorted, strong siliceous cement, very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity, no fluorescence. |
| 1225 | 1230 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, translucent, clear, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1230 | 1235 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, translucent, clear, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1235 | 1240 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: very light grey, translucent, clear, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1240 | 1245 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1245 | 1250 | 70  30 | CLAYSTONE: medium grey, medium dark grey, trace micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1250 | 1255 | 70  30 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black, trace micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1255 | 1260 | 80  20 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black, trace to locally common micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1260 | 1265 | 60  40 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black, trace to locally common micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1265 | 1270 | 70  30 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black, trace to locally common micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1270 | 1275 | 80  20 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black, brownish grey in part, trace to locally common micro mica, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1275 | 1280 | 90  10 | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, trace to locally common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey in part, very fine to medium grained, sub angular to sub rounded, moderately well sorted, strong siliceous cement in fine grained aggregates, medium grains predominantly loose / disaggregated, minor white to very light grey argillaceous matrix, moderately hard aggregates, tight visual porosity in fine grained aggregates, no fluorescence. |
| 1280 | 1285 | 90  10 | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, trace to locally common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace very fine reddish brown lithic grains, moderately hard, trace hard, tight visual porosity, no fluorescence. |
| 1285 | 1290 | 100  trace | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, trace to locally common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace very fine reddish brown lithic grains, moderately hard, trace hard, tight visual porosity, no fluorescence. |
| 1290 | 1295 | 100  trace | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, trace to locally common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace very fine reddish brown lithic grains, trace disseminated pyrite, moderately hard, trace hard, tight visual porosity, no fluorescence. |
| 1295 | 1300 | 100  trace | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, trace to locally common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace very fine reddish brown lithic grains, trace carbonaceous flecks and micro laminations, moderately hard, trace hard, tight visual porosity, no fluorescence. |
| 1300 | 1305 | 100  trace | CLAYSTONE: medium grey, medium dark grey, commonly greyish black to black, brownish grey in part, slightly silty, common micro mica, moderately hard to hard, dominantly sub fissile to sub blocky, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace very fine reddish brown lithic grains, trace carbonaceous specks and rare micro laminations, moderately hard, trace hard, tight visual porosity, no fluorescence. |
| 1305 | 1310 | 90  10 | CLAYSTONE: medium grey, medium dark grey, occasionally greyish black to black, brownish grey in part, silty to very finely arenaceous in part, common micro mica, rare disseminated pyrite, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, trace medium grains, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, moderately hard, trace friable, tight visual porosity, no fluorescence. |
| 1310 | 1315 | 100  trace | CLAYSTONE: medium grey, medium dark grey, brownish grey, occasionally greyish black, silty to very finely arenaceous in part, common micro mica, rare disseminated pyrite, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, trace medium grains, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace lithic grains, moderately hard, trace friable, tight visual porosity, no fluorescence. |
| 1315 | 1320 | 90  10 | CLAYSTONE: medium grey, medium dark grey, brownish grey, com greyish black, silty to very finely arenaceous in part, common micro mica, rare disseminated pyrite, moderately hard to hard, sub blocky to sub fissile, rarely fissile.  SANDSTONE: very light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, trace medium grains, sub angular to sub rounded, well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace micro mica, trace lithic grains, moderately hard, occasionally friable, tight visual porosity, no fluorescence. |
| 1320 | 1325 | 90  10 | CLAYSTONE: medium dark grey to greyish black, occasionally brownish grey, slightly silty, common micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: medium light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, trace medium grains, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace to locally common micro mica, trace disseminated pyrite, trace lithic grains, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 1325 | 1330 | 90  10 | CLAYSTONE: medium dark grey to greyish black, occasionally brownish grey, slightly silty, common micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: medium light grey, translucent, clear, light brownish grey to brownish grey, very fine to fine grained, trace medium grains, sub angular to sub rounded, moderately well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace to locally common micro mica, trace disseminated pyrite, trace lithic grains, moderately hard, occasionally friable, very poor visual porosity, no fluorescence. |
| 1330 | 1335 | 80  20 | CLAYSTONE: medium dark grey to greyish black, occasionally brownish grey, slightly silty, common micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: medium light grey, translucent, clear, light brownish grey to brownish grey, occasionally medium grey, very fine to fine grained, sub angular to dominantly sub rounded, moderately well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace to locally common micro mica, trace disseminated pyrite, trace lithic grains, moderately hard, very poor visual porosity, no fluorescence. |
| 1335 | 1340 | 90  10 | CLAYSTONE: medium dark grey to greyish black, occasionally brownish grey, slightly silty, common micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: medium light grey, translucent, clear, light brownish grey to brownish grey, occasionally medium grey, very fine to fine grained, sub angular to dominantly sub rounded, moderately well sorted, moderately strong siliceous cement, minor white to very light brownish grey argillaceous matrix, trace to locally common micro mica, trace disseminated pyrite, trace lithic grains, moderately hard, very poor visual porosity, no fluorescence. |
| 1340 | 1345 | 70  30 | CLAYSTONE: medium dark grey to dark grey black, slightly silty, minor micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey to light brownish grey, translucent in part, very fine to fine grained, sub angular to sub rounded, moderately strong siliceous cement, minor very light grey argillaceous matrix, trace micro mica, moderately hard, very poor visual porosity, no fluorescence. |
| 1345 | 1350 | 80  20 | CLAYSTONE: medium dark grey to dark grey black, slightly silty, minor micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey to light brownish grey, translucent in part, very fine to fine grained, sub angular to sub rounded, moderately strong siliceous cement, minor very light grey argillaceous matrix, trace micro mica, moderately hard, very poor visual porosity, no fluorescence. |
| 1350 | 1355 | 50  50 | CLAYSTONE: medium dark grey as above.  SANDSTONE: clear, translucent, fine to coarse predominantly medium grained, poor sorting, angular shards to occasionally sub rounded, weak-moderately strong siliceous cement, minor white argillaceous matrix, predominantly disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1355 | 1360 | 40  60 | CLAYSTONE: medium dark grey as above.  SANDSTONE: clear, translucent, fine to coarse predominantly medium grained, poor sorting, angular shards to occasionally sub rounded, weak-moderately strong siliceous cement, minor white argillaceous matrix, predominantly disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1360 | 1365 | 40  60 | CLAYSTONE: medium dark grey to dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: clear, translucent, fine to coarse predominantly medium grained, poor sorting, angular shards to occasionally sub rounded, weak-moderately strong siliceous cement, minor white argillaceous matrix, predominantly disaggregated quartz grains, poor – fair inferred porosity, no fluorescence. |
| 1365 | 1370 | 10  90 | CLAYSTONE: medium dark grey to dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: clear, translucent, fine to coarse grained, poor sorting, sub angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, fair inferred porosity, no fluorescence. |
| 1370 | 1375 | 10  90 | CLAYSTONE: medium dark grey to dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: clear, translucent, fine to coarse grained, poor sorting, sub angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, fair inferred porosity, no fluorescence. |
| 1375 | 1380 | 10  90 | CLAYSTONE: medium dark grey to dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: clear, translucent, fine to coarse grained, poor sorting, sub angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, fair inferred porosity, no fluorescence. |
| 1380 | 1385 | 100 | SANDSTONE: clear, translucent, fine to coarse grained, predominantly medium, poor sorting, angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, fair inferred porosity, no fluorescence. |
| 1385 | 1390 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: translucent, clear, fine to coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, poor to fair inferred porosity, no fluorescence. |
| 1390 | 1395 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: translucent, clear, fine to medium occasionally coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, poor to fair inferred porosity, no fluorescence. |
| 1395 | 1400 | 100 | SANDSTONE: translucent, clear, fine to medium occasionally coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, predominantly loose disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1400 | 1405 | 100 | SANDSTONE: translucent, clear, white, fine to predominantly medium to coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, minor white argillaceous matrix, predominantly loose disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1405 | 1410 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: translucent, clear, white, occasionally yellowish grey, fine to predominantly medium to coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, minor white argillaceous matrix, predominantly loose disaggregated quartz grains, trace friable aggregates, poor inferred porosity, no fluorescence. |
| 1410 | 1415 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, trace micro mica, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: translucent, clear, white, occasionally yellowish grey, fine to predominantly medium to coarse grained, occasionally very coarse, poor sorting, angular to sub rounded, trace rounded, trace siliceous cement, minor white argillaceous matrix, predominantly loose disaggregated quartz grains, trace friable aggregates, poor inferred porosity, no fluorescence. |
| 1415 | 1420 | 100 | SANDSTONE: translucent, white, clear, fine to coarse grained, poor sorting, angular to sub rounded, trace siliceous cement, trace white argillaceous matrix (rock flour?), predominantly loose disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1420 | 1425 | 100 | SANDSTONE: translucent, white, clear, fine to coarse grained, poor sorting, angular quartz shards to sub rounded grains, trace siliceous cement, rare white argillaceous matrix, trace pyrite, predominantly loose disaggregated quartz grains, poor inferred porosity, no fluorescence. |
| 1425 | 1430 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, siliceous, micaceous, hard, sub blocky.  SANDSTONE: translucent, clear, white, occasionally very light grey, fine to predominantly medium to coarse grained, poor sorting, angular quartz shards to sub rounded grains, strong siliceous cement, minor to common white-light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity, no fluorescence. |
| 1430 | 1435 | trace  (cavings?)  100 | CLAYSTONE: dark grey black, siliceous, micaceous, hard, sub blocky.  SANDSTONE: translucent, clear, white, very light grey, very fine to predominantly medium to coarse grained, poor sorting, angular quartz shards to sub rounded grains, strong siliceous cement, common white-light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence. |
|  |  |  | **7.625" Intermediate casing set at 1432.3m** |
| 1435 | 1440 | 60  40 | SILTSTONE: medium to dark grey, dark grey brown, arenaceous, siliceous, micro mica, moderately hard to hard, sub blocky to occasionally blocky.  SANDSTONE: off white, clear to translucent in part, fine to dominantly medium, moderately well sorted, sub angular, strong siliceous cement, occasional off white argillaceous matrix, hard to occasionally moderately hard, very poor visual porosity, no fluorescence.  *\*Common cement contamination.* |
| 1440 | 1445 | 20  80 | SILTSTONE: medium to dark grey, arenaceous, micro micaceous, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: translucent, clear, white, very light grey, very fine to predominantly fine to coarse grained, poorly sorted, angular quartz shards to sub rounded grains, strong siliceous cement, common white-light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence.  *\*Cement contamination.* |
| 1445 | 1450 | 20  80 | SILTSTONE: medium to dark grey, minor orange brown, arenaceous grading to very fine SANDSTONE, argillaceous in part, commonly micro micaceous, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: translucent, clear, white, very light grey, very fine to medium grained, predominantly fine grained, moderately sorted, angular to sub rounded grains, strong siliceous cement, common white to very light grey argillaceous matrix, very hard fine grained quartz aggregates, trace pyrite, rare fine grained black lithics, poor visual porosity in fine grained aggregates, no fluorescence. |
| 1450 | 1455 | 30  70 | SILTSTONE: medium to dark grey, minor grey brown, arenaceous grading to very fine SANDSTONE, argillaceous in part, commonly micro micaceous, moderately hard to hard, sub fissile to sub blocky, trace fissile.  SANDSTONE: translucent, clear, white, very light grey, very fine to medium grained, predominantly fine grained, moderately sorted, angular to sub rounded grains, strong siliceous cement, common white to very light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence. |
| 1455 | 1460 | 40  60 | SILTSTONE: medium to dark grey, arenaceous grading to very fine SANDSTONE, argillaceous in part, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: translucent, clear, white, very light grey, very fine to medium grained, predominantly fine grained, moderately sorted, angular to sub rounded grains, strong siliceous cement, common white to very light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence. |
| 1460 | 1465 | 5  95 | SILTSTONE: dark grey, medium grey, argillaceous, minor arenaceous grading to very fine SANDSTONE, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: translucent, clear, white, fine to coarse grained, poorly sorted, angular to sub rounded, trace siliceous cement, trace white argillaceous matrix, predominantly loose disaggregated quartz grains, rare fine grained quartz aggregates, poor visual porosity, fair inferred porosity, no fluorescence. |
| 1465 | 1470 | 15  85 | SILTSTONE: dark grey, light to medium grey, argillaceous, arenaceous grading to very fine SANDSTONE, trace disseminated pyrite, micro micaceous, moderately hard to hard, sub fissile to sub blocky, rare fissile.  SANDSTONE: translucent, clear, pale yellowish orange, fine to coarse grained, poorly sorted, angular to sub rounded, trace siliceous cement, trace white argillaceous matrix, predominantly loose disaggregated quartz grains, rare fine grained quartz aggregates, poor visual porosity, fair inferred porosity, no fluorescence. |
| 1470 | 1480 | 60  40 | SILTSTONE: dark grey, light to medium grey, arenaceous grading to very fine SANDSTONE, argillaceous, micro-micaceous, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, clear, very fine to medium grained, predominantly fine grained, moderately sorted, angular to sub rounded grains, strong siliceous cement, minor white to very light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence. |
| 1480 | 1490 | 50  50 | SILTSTONE: light to medium grey, dark grey, arenaceous grading to very fine SANDSTONE, argillaceous, micro-micaceous, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: white, very light grey, translucent, clear, very fine to medium grained, predominantly fine grained, moderately sorted, angular to sub rounded grains, strong siliceous cement, minor white to very light grey argillaceous matrix, very hard fine grained quartz aggregates, poor visual porosity in fine grained aggregates, no fluorescence. |
| 1490 | 1495 | 50  50 | SILTSTONE: medium to dark grey, dark grey brown, argillaceous to arenaceous, micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light brown grey, off white, clear in part, fine to coarse, dominantly fine, poorly sorted, sub angular to angular, strong siliceous cement, minor off white argillaceous matrix, trace dark lithics, rare pyrite nodules, hard, very poor visual porosity, no fluorescence. |
| 1495 | 1500 | 10  90 | SILTSTONE: medium to dark grey, dark grey brown, argillaceous to minor arenaceous, micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: clear to translucent, light yellow brown, rare off white, fine to coarse, dominantly medium, poorly sorted, sub angular to angular, strong siliceous cement, minor off white argillaceous matrix, trace dark lithics, hard, poor to fair visual porosity, no fluorescence. |
| 1500 | 1505 | 5  95 | SILTSTONE: medium to dark grey, argillaceous to minor arenaceous, micro micaceous, moderately hard to hard, sub fissile to fissile.  SANDSTONE: light yellow brown, clear to translucent, very fine to fine, minor medium, moderately sorted, sub angular to angular, strong siliceous cement, minor off white argillaceous matrix, trace dark lithics, hard, poor to fair visual porosity, no fluorescence. |
| 1505 | 1510 | 30  70 | SILTSTONE: medium to dominantly dark grey, argillaceous to arenaceous, micro micaceous, moderately hard to hard, sub fissile to fissile.  SANDSTONE: clear to translucent, light yellow brown, very fine to fine, minor medium, moderately sorted, sub angular to angular, strong siliceous cement, minor off white argillaceous matrix, trace dark lithics, minor pyrite nodules, hard, poor to very poor visual porosity, no fluorescence. |
| 1510 | 1515 | 10  90 | SILTSTONE: medium to dominantly dark grey, argillaceous to arenaceous, micro micaceous, moderately hard to hard, sub fissile to fissile.  SANDSTONE: clear to translucent, off white in part, very fine to fine, minor medium, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, trace dark lithics, hard, poor to fair visual porosity, no fluorescence. |
| 1515 | 1520 | 10  90 | SILTSTONE: medium to dominantly dark grey, argillaceous to arenaceous, micro micaceous, moderately hard to hard, sub fissile to fissile.  SANDSTONE: clear to translucent, off white in part, very fine to fine, well sorted, sub angular to occasionally sub rounded, strong siliceous cement, minor off white argillaceous matrix, trace dark lithics, hard, poor to very poor visual porosity, no fluorescence. |
| 1520 | 1525 | 20  80 | SILTSTONE: medium to dominantly dark grey, argillaceous to locally arenaceous, micro micaceous in part, moderately hard to hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white to light yellow, very fine to fine, well sorted, sub angular to minor sub rounded, strong siliceous cement, minor off white argillaceous matrix, minor pyrite nodules, trace dark lithics, hard, poor to very poor visual porosity, no fluorescence. |
| 1525 | 1530 | 60  40 | SILTSTONE: medium to dominantly dark grey, dominantly arenaceous to occasionally argillaceous, micro micaceous in part, localised mica flecks, hard to rare very hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: light grey to off white, very fine to fine, well sorted, sub angular to minor sub rounded, strong siliceous cement, minor off white to light grey argillaceous matrix, minor pyrite nodules, micro micaceous in part, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1530 | 1535 | 70  30 | SILTSTONE: medium to dominantly dark grey, dominantly arenaceous to occasionally argillaceous, micro micaceous in part, localised mica flecks, hard to rare very hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: light grey to off white, very fine to fine, well sorted, sub angular to minor sub rounded, strong siliceous cement, minor off white to light grey argillaceous matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1535 | 1540 | 80  20 | SILTSTONE: medium to dominantly dark grey, medium grey brown in part, dominantly arenaceous to occasionally argillaceous, micro micaceous in part, localised mica flecks, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: light grey to off white, very fine to fine, minor medium, rare coarse to very coarse, moderately sorted, sub angular to minor sub rounded, strong siliceous cement, minor off white argillaceous matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to localised common dark lithics, trace glauconite, hard, very poor to tight visual porosity, no fluorescence. |
| 1540 | 1545 | 90  10 | SILTSTONE: medium to dominantly dark grey, medium grey brown in part, dominantly arenaceous to occasionally argillaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white, dominantly medium, minor fine to coarse, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to locally common dark lithics, trace glauconite, loose, hard, very poor visual porosity, poor inferred porosity, no fluorescence. |
| 1545 | 1550 | 50  50 | SILTSTONE: medium to dominantly dark grey, medium grey brown in part, dominantly arenaceous to argillaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white, dominantly medium, minor fine to coarse, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous to occasionally silty matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to locally common dark lithics, trace glauconite, loose, hard, very poor visual porosity, poor inferred porosity, no fluorescence. |
| 1550 | 1555 | 10  70  20 | CLAYSTONE: light to medium grey, silty in part, siliceous, minor micro micaceous, hard to very hard, sub fissile.  SILTSTONE: medium to dominantly dark grey, medium grey brown in part, arenaceous to argillaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white, dominantly medium, minor fine to coarse, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous to occasionally silty matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to locally common dark lithics, hard, very poor visual porosity, no fluorescence. |
| 1555 | 1560 | 20  70  10 | CLAYSTONE: light to medium brown grey, light grey, silty in part, siliceous, minor micro micaceous, hard to very hard, sub fissile.  SILTSTONE: medium to dominantly dark grey, medium grey brown in part, argillaceous to minor arenaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white, dominantly medium, minor fine to coarse, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous to occasionally silty matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to locally common dark lithics, hard, very poor visual porosity, no fluorescence. |
| 1560 | 1565 | 20  70  10 | CLAYSTONE: light to medium brown grey, light grey, silty in part, siliceous, minor micro micaceous, hard to very hard, sub fissile.  SILTSTONE: medium to dominantly dark grey, medium grey brown in part, argillaceous to minor arenaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: clear to translucent, off white, dominantly medium, minor fine to coarse, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous to occasionally silty matrix, minor disseminated and nodular pyrite, micro micaceous in part, occasional to locally common dark lithics, hard, very poor visual porosity, no fluorescence. |
| 1565 | 1570 | 10  85  5 | CLAYSTONE: light to medium brown grey, light grey, silty in part, siliceous, minor micro micaceous, hard to very hard, sub fissile.  SILTSTONE: dark brown grey, medium to dark grey in part, argillaceous to minor arenaceous, siliceous in part, micro micaceous in part, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: light grey to off white, very fine to fine, very well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous to occasionally silty matrix, minor disseminated and nodular pyrite, minor glauconite grains, occasional to locally common dark lithics, hard, very poor visual porosity, no fluorescence. |
| 1570 | 1575 | 40  60 | SILTSTONE: dark to medium grey, argillaceous to minor arenaceous, siliceous in part, dominantly micro micaceous, hard, sub fissile to sub blocky, occasionally fissile.  SANDSTONE: light grey to off white, very fine to dominantly fine, medium in part, well sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, minor disseminated pyrite, rare dark lithics, hard to occasionally very hard, very poor visual porosity, no fluorescence. |
| 1575 | 1580 | 80  20 | SILTSTONE: dark to minor medium grey, arenaceous, occasionally argillaceous, siliceous in part, dominantly micro micaceous, hard, sub fissile to minor sub blocky.  SANDSTONE: light to medium grey, off white, very fine to dominantly fine, minor medium in part, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, rare dark lithics, hard to occasionally very hard, very poor visual porosity, no fluorescence. |
| 1580 | 1585 | 40  60 | SILTSTONE: dark to minor medium grey, arenaceous, occasionally argillaceous, siliceous in part, dominantly micro micaceous, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to medium grey, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, minor glauconite grains, rare disseminated pyrite, rare dark lithics, hard to occasionally very hard, very poor visual porosity, no fluorescence. |
| 1585 | 1590 | 80  20 | SILTSTONE: dark to minor medium grey, arenaceous, occasionally argillaceous, minor siliceous in part, dominantly micro micaceous, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1590 | 1595 | 70  30 | SILTSTONE: dark to minor medium grey, arenaceous, occasionally argillaceous, trace calcareous, dominantly micro micaceous, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, trace glauconite grains, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1595 | 1600 | 70  30 | SILTSTONE: dark to minor medium grey, arenaceous, minor argillaceous, trace calcareous, dominantly micro micaceous, locally common mica flecks, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, minor light yellow, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, trace glauconite grains, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1600 | 1605 | 40  60 | SILTSTONE: dark to minor medium grey, arenaceous, minor argillaceous, trace calcareous, dominantly micro micaceous, locally common mica flecks, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, minor light yellow, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1605 | 1610 | 90  10 | SILTSTONE: dark to minor medium grey, arenaceous, minor argillaceous, dominantly micro micaceous, locally common mica flecks, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, fine to medium, occasionally very fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1610 | 1615 | 50  50 | SILTSTONE: dark to minor medium grey, arenaceous, minor argillaceous, dominantly micro micaceous, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, minor milky, medium to coarse, occasionally fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1615 | 1620 | 80  20 | SILTSTONE: dark to minor medium grey, occasionally very dark grey, arenaceous, minor argillaceous, common to abundant micro micaceous, hard, sub fissile, minor sub blocky to fissile.  SANDSTONE: off white, light to occasionally medium grey, minor milky, medium to coarse, occasionally fine, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1620 | 1625 | 90  10 | SILTSTONE: dark to occasionally very dark grey, brown grey in part, arenaceous, minor argillaceous, common to abundant micro micaceous, hard, sub fissile to sub blocky, fissile in part.  SANDSTONE: off white, light to occasionally medium grey, fine to medium, minor coarse, moderately sorted, sub angular to angular, moderately siliceous cement, minor off white argillaceous matrix, rare disseminated pyrite, localised dark lithics, hard to occasionally moderately hard, very poor visual porosity, no fluorescence. |
| 1625 | 1630 | 85  15 | SILTSTONE: dark grey to minor very dark grey, trace dark olive grey, arenaceous, common micro micaceous, hard, sub fissile to sub blocky, fissile in part.  SANDSTONE: off white, light grey, trace medium grey, fine to medium, moderately sorted, sub angular to angular, moderately siliceous cement, occasional off white argillaceous matrix, trace dark grey to black lithics, hard, very poor visual porosity, no fluorescence. |
| 1630 | 1635 | 90  10 | SILTSTONE: dark grey to very dark grey, occasionally brown grey in part, arenaceous, common micro micaceous, hard, sub fissile to sub blocky.  SANDSTONE: off white, light grey, trace medium grey, fine to medium, moderately sorted, sub angular to angular, moderately siliceous cement, occasional off white argillaceous matrix, trace dark grey to black lithics, hard, very poor visual porosity, no fluorescence. |
| 1635 | 1640 | 85  15 | SILTSTONE: dark grey to very dark grey, occasionally brown grey in part, arenaceous, common micro micaceous, hard, sub fissile to sub blocky.  SANDSTONE: off white, light grey, trace medium grey, very fine to medium, moderately sorted, sub angular to angular, moderately siliceous cement, occasional off white argillaceous matrix, trace dark grey lithics, hard, very poor visual porosity, no fluorescence. |
| 1640 | 1645 | 80  20 | SILTSTONE: dark grey to common very dark grey, trace dark brown in part, arenaceous, occasionally argillaceous, common micro micaceous, hard, sub fissile to sub blocky, fissile.  SANDSTONE: off white, light grey, medium, common fine, moderately sorted, sub angular to angular, moderately siliceous cement, occasional off white argillaceous matrix, trace dark lithics, moderately hard to hard, very poor visual porosity, no fluorescence. |
| 1645 | 1650 | 50  50 | SILTSTONE: medium dark grey to dark grey, occasionally brown grey, arenaceous, common micro micaceous, hard, sub fissile to sub blocky, fissile in part.  SANDSTONE: off white, light grey to medium light grey, occasionally light olive grey, very fine to fine, moderately sorted, sub rounded to sub angular, common siliceous cement, trace off white argillaceous matrix, trace glauconite inclusions, trace pyrite inclusions, moderately hard to hard, very poor visual porosity, no fluorescence. |
| 1650 | 1655 | 60  40 | SILTSTONE: medium grey to dark grey, occasionally brown grey, arenaceous, commonly micro micaceous, hard, sub fissile to sub blocky, fissile in part.  SANDSTONE: off white, light grey to medium light grey, occasionally light olive grey, fine, minor medium, moderately sorted, sub rounded to sub angular, common siliceous cement, abundant off white argillaceous matrix, trace glauconite inclusions, trace pyrite inclusions, moderately hard to hard, very poor visual porosity, no fluorescence. |
| 1655 | 1660 | 15  85 | SILTSTONE: medium dark grey to dark grey, occasionally brown grey, arenaceous, commonly micro micaceous, hard, sub fissile to sub blocky, fissile in part.  SANDSTONE: off white, very light grey to light grey, occasionally opaque, fine to medium loose grains, poorly sorted, trace siliceous cement, minor off white argillaceous matrix, abundant mica flecks, trace orange lithics, loose, hard to very hard, moderately hard aggregates, poor visual porosity, fair inferred porosity, no fluorescence. |
| 1660 | 1665 | 30  70 | SILTSTONE: medium dark grey to dark grey, occasionally brown black, trace dark olive grey, arenaceous, minor micro micaceous, trace brown lithics, moderately hard, sub fissile to sub blocky.  SANDSTONE: very light grey to light grey, opaque, common clear to translucent, fine to medium loose grains, medium, poorly sorted, sub rounded to sub angular, occasional siliceous cement, minor off white argillaceous matrix, abundant mica flecks, loose, firm to moderately hard aggregates, poor visual porosity, fair inferred porosity, no fluorescence. |
| 1665 | 1670 | 20  80 | SILTSTONE: medium dark grey to dark grey, occasionally brown black, trace dark olive grey, arenaceous, minor micro micaceous, trace brown lithics, moderately hard, sub fissile to sub blocky.  SANDSTONE: very light grey to light grey, opaque, commonly clear to translucent, fine to medium loose grains, medium, poorly sorted, sub rounded to sub angular, minor siliceous cement, minor off white argillaceous matrix, abundant mica flecks, trace dark lithics, loose, firm to moderately hard aggregates, poor visual porosity, fair inferred porosity, no fluorescence. |
|  |  |  | WSG: D. Adderley |
| 1670 | 1675 | 60  40 | SILTSTONE: dark grey, occasionally medium to very dark grey, minor dark brown grey, common arenaceous, grading to very fine Sandstone in part, occasionally siliceous, common to abundant micro micaceous, trace lithics, moderately hard to dominantly hard, sub fissile to sub blocky.  SANDSTONE: light grey to occasionally off white, fine, minor very fine to rare medium, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional off white to light grey argillaceous matrix, occasional lithics, minor mica flecks, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1675 | 1680 | 80  20 | SILTSTONE: dark to very dark grey, occasionally medium grey, minor dark brown grey, common arenaceous, grading to very fine Sandstone in part, occasionally siliceous, common to abundant micro micaceous, trace lithics, moderately hard to dominantly hard, sub fissile to sub blocky.  SANDSTONE: light grey to occasionally off white, fine, minor very fine to rare medium, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional off white to light grey argillaceous matrix, occasional lithics, minor mica flecks, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1680 | 1685 | 90  10 | SILTSTONE: dark to very dark grey, occasionally medium grey, minor dark brown grey, common arenaceous, grading to very fine Sandstone in part, occasionally siliceous, common to abundant micro micaceous, trace lithics, moderately hard to dominantly hard, sub fissile to occasionally fissile.  SANDSTONE: light to occasionally medium grey, minor off white, fine, minor very fine to rare medium, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional off white to light grey argillaceous matrix, occasional to common dark lithics, minor mica flecks, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1685 | 1690 | 100  Trace | SILTSTONE: dark to dominantly very dark brown grey, minor dark grey, common arenaceous, grading to very fine Sandstone in part, occasionally siliceous, common to abundant micro micaceous, trace lithics, moderately hard to dominantly hard, sub fissile to occasionally fissile.  SANDSTONE: light to occasionally medium grey, minor off white, fine, minor very fine to rare medium, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional off white to light grey argillaceous matrix, occasional to common dark lithics, minor mica flecks, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1690 | 1695 | 100  Trace | SILTSTONE: dark to dominantly very dark brown grey, minor dark grey, commonly arenaceous, grading to very fine Sandstone in part, occasionally siliceous, micro micaceous, trace lithics, firm to moderately hard, sub fissile to occasionally fissile.  SANDSTONE: light to occasionally medium grey, minor off white, fine, minor very fine, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional off white to light grey argillaceous matrix, occasional to common dark lithics, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1695 | 1700 | 90  10 | SILTSTONE: dark to dominantly very dark grey, minor dark brown grey, commonly arenaceous, grading to very fine Sandstone in part, occasionally siliceous, common to abundant micro micaceous, trace lithics, rare disseminated pyrite, firm to moderately hard, sub fissile to occasionally fissile.  SANDSTONE: light to occasionally medium grey, minor off white, fine, minor very fine, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional to common dark lithics, rare glauconite grains, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1700 | 1705 | 100  Trace | SILTSTONE: dark to dominantly very dark brown grey, minor dark grey, commonly arenaceous, common to abundant micro micaceous, trace lithics, rare disseminated pyrite, firm to moderately hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional to common dark lithics, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1705 | 1710 | 80  20 | SILTSTONE: dark to dominantly very dark brown grey, dark grey, commonly arenaceous, rare argillaceous, common to abundant micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1710 | 1715 | 70  30 | SILTSTONE: dark to very dark brown grey, light to dark grey in part, commonly arenaceous, rare argillaceous, locally common siliceous, common micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard to occasionally very hard, very poor to tight visual porosity, no fluorescence. |
| 1715 | 1720 | 90  10 | SILTSTONE: dark to very dark brown grey, minor light to dark grey in part, commonly arenaceous, rare argillaceous, locally common siliceous, common micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1720 | 1725 | 90  10 | SILTSTONE: dark to very dark brown grey, minor dark grey in part, commonly arenaceous, grading to very fine Sandstone in part, rare argillaceous, locally common siliceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1725 | 1730 | 90  10 | SILTSTONE: dark to very dark brown grey, minor dark grey in part, commonly arenaceous, grading to very fine Sandstone in part, rare argillaceous, locally common siliceous, commonly micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to occasionally sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1730 | 1735 | 80  20 | SILTSTONE: dark to very dark grey, minor dark brown grey, commonly arenaceous, grading to very fine Sandstone in part, rare argillaceous, occasionally siliceous, commonly micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to occasionally sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1735 | 1740 | 90  10 | SILTSTONE: dark to very dark brown grey, minor light to dark grey in part, commonly arenaceous, grading to very fine Sandstone in part, rare argillaceous, locally common siliceous, common micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to occasionally medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1740 | 1745 | 90  10 | SILTSTONE: dark to very dark grey, dark brown grey in part, commonly arenaceous, grading to very fine Sandstone in part, commonly micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1745 | 1750 | 100  Trace | SILTSTONE: dark to very dark grey, dark brown grey in part, commonly arenaceous, minor argillaceous, commonly micro micaceous, trace lithics, rare disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, moderately well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, very poor to tight visual porosity, no fluorescence. |
| 1750 | 1755 | 95  5 | SILTSTONE: dark to very dark grey, dark brown grey in part, commonly arenaceous, minor argillaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, moderately hard to hard, tight visual porosity, no fluorescence. |
| 1755 | 1760 | 90  10 | SILTSTONE: dark to very dark grey, dark brown grey in part, commonly arenaceous, minor argillaceous, commonly micro micaceous, occasional lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, moderately hard to hard, tight visual porosity, no fluorescence. |
| 1760 | 1765 | 95  5 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, grading to very fine Sandstone, rare argillaceous, commonly micro micaceous, occasional lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, tight visual porosity, no fluorescence. |
| 1765 | 1770 | 100  Trace | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, minor argillaceous, minor micro micaceous, occasional lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, tight visual porosity, no fluorescence. |
| 1770 | 1775 | 95  5 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, minor argillaceous, rare grading to very fine Sandstone, occasional micro micaceous, occasional lithics, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub angular to minor angular in part, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, hard, tight visual porosity, no fluorescence. |
| 1775 | 1780 | 100 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, minor argillaceous, occasionally micro micaceous, occasional lithics, rare disseminated pyrite moderately hard to hard, sub fissile to sub blocky. |
| 1780 | 1785 | 95  5 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, trace grading to very fine Sandstone, occasional micro micaceous, occasional lithics, trace disseminated pyrite, moderately hard to hard, sub fissile to sub blocky.  SANDSTONE: light to medium grey, minor off white, fine to very fine, well sorted, sub round to sub angular, strong siliceous cement, occasional light grey argillaceous matrix, occasional dark lithics, trace glauconite, hard, tight visual porosity, no fluorescence. |
| 1785 | 1790 | 100 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, rare argillaceous, occasional micro micaceous, occasional lithics, trace disseminated and nodular pyrite, moderately hard to hard, sub fissile to sub blocky. |
| 1790 | 1795 | 100 | SILTSTONE: dark to very dark grey, dark brown grey in part, arenaceous, rare argillaceous, occasionally micro micaceous, occasional lithics, trace disseminated pyrite, moderately hard to hard, sub fissile to sub blocky. |
| 1795 | 1800 | 100 | SILTSTONE: dark to very dark grey, dark brown grey in part, trace medium grey, arenaceous, occasional grading to very fine Sandstone, argillaceous in part, minor micro micaceous, occasional lithics, trace disseminated pyrite, moderately hard to hard, sub fissile to sub blocky. |
| 1800 | 1805 | 100 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, dominantly arenaceous, rare argillaceous, locally common micro micaceous, rare pyrite nodules, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile. |
| 1805 | 1810 | 100 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, dominantly arenaceous, rare argillaceous, locally common micro micaceous, occasional mica flecks, rare pyrite nodules, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile. |
| 1810 | 1815 | 100 | SILTSTONE: dark to occasionally very dark grey, dark to occasionally medium grey brown, dominantly arenaceous, rare argillaceous, locally common micro micaceous, occasional mica flecks, rare pyrite nodules, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile. |
| 1815 | 1820 | 100 | SILTSTONE: dark to occasionally very dark grey, dark to occasionally medium grey brown, dominantly arenaceous, rare argillaceous, locally common micro micaceous, occasional mica flecks, rare pyrite nodules, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile, minor fissile. |
| 1820 | 1825 | 100 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, dominantly arenaceous to occasionally argillaceous, locally common micro micaceous, occasional mica flecks, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile, minor fissile. |
| 1825 | 1830 | 100 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, dominantly arenaceous to occasionally argillaceous, locally common micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to sub fissile, minor fissile. |
| 1830 | 1835 | 95  5 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous to argillaceous, locally common micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white to light grey, very fine, well sorted, sub angular to sub rounded, moderately siliceous cement, common off white argillaceous matrix, minor lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1835 | 1840 | 85  15 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous to argillaceous, locally common micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white to light grey, very fine, well sorted, sub angular to sub rounded, moderately siliceous cement, common off white argillaceous matrix, occasional dark lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1840 | 1845 | 80  20 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous to argillaceous, locally common micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white to light grey, very fine, commonly grading to arenaceous Siltstone, well sorted, sub angular to sub rounded, moderately siliceous cement, common off white argillaceous matrix, occasional dark lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1845 | 1850 | 95  5 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous to argillaceous, locally common micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white to light grey, very fine, commonly grading to arenaceous Siltstone, well sorted, sub angular to sub rounded, moderately siliceous cement, common off white argillaceous matrix, occasional dark lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1850 | 1855 | 100  Trace | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous to argillaceous, commonly micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white to light grey, very fine, commonly grading to arenaceous Siltstone, well sorted, sub angular to sub rounded, moderately siliceous cement, common off white argillaceous matrix, occasional dark lithics, moderately hard, tight visual porosity, no fluorescence. |
| 1855 | 1860 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous to occasionally argillaceous, commonly micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile. |
| 1860 | 1865 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous to occasionally argillaceous, common to abundant micro micaceous, minor lithics, moderately hard to occasionally hard, sub blocky to occasionally sub fissile. |
| 1865 | 1870 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous to occasionally locally argillaceous, common to abundant micro micaceous, minor lithics, moderately hard to hard, sub blocky to sub fissile. |
| 1870 | 1875 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous, minor argillaceous, common micro micaceous, minor lithics, moderately hard to hard, sub blocky to sub fissile. |
| 1875 | 1880 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous, minor argillaceous, common micro micaceous, minor lithics, moderately hard to hard, sub blocky to sub fissile. |
| 1880 | 1885 | 100 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous, minor argillaceous, common micro micaceous, minor lithics, moderately hard to hard, rare very hard, sub blocky to sub fissile. |
| 1885 | 1890 | 20  80 | SILTSTONE: dark to minor very dark grey, dark grey brown, arenaceous, minor argillaceous, common micro micaceous, minor lithics, moderately hard to hard, rare very hard, sub blocky to sub fissile.  DOLERITE: light to medium translucent grey, occasionally dark translucent grey, crystalline to minor microcrystalline, minor nodular and disseminated pyrite, common calcite inclusions and crystals, occasional chlorite inclusions, hard to very hard. |
| 1890 | 1895 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, trace argillaceous, occasionally micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  DOLERITE: light to medium translucent grey, occasionally dark translucent grey, crystalline to minor microcrystalline, minor nodular and disseminated pyrite, common calcite inclusions and crystals, occasional chlorite inclusions, hard to very hard. |
| 1895 | 1900 | 95  5  Trace | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, trace argillaceous, occasionally micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  DOLERITE: light to medium translucent grey, occasionally dark translucent grey, crystalline to minor microcrystalline, minor nodular and disseminated pyrite, common calcite inclusions and crystals, occasional chlorite inclusions, hard to very hard.  SANDSTONE: off white, very light to light grey, fine, moderately sorted, sub rounded to sub angular, common siliceous matrix, rare off white argillaceous matrix, minor dark lithics, moderate hard, poor visual porosity, no fluorescence. |
| 1900 | 1905 | 95  5 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, trace argillaceous, commonly micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, moderately sorted, sub rounded to sub angular, common siliceous matrix, occasional off white argillaceous matrix, minor dark lithics, moderate hard, poor visual porosity, no fluorescence. |
| 1905 | 1910 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, minor micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine to very fine, moderately sorted, sub rounded to sub angular, common siliceous matrix, occasional off white argillaceous matrix, minor dark lithics, moderate hard to hard, very poor visual porosity, no fluorescence. |
| 1910 | 1915 | 70  30 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, commonly micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, occasionally very fine, moderately sorted, sub rounded to sub angular, common siliceous matrix, occasional off white argillaceous matrix, minor dark lithics, moderate hard to hard, poor visual porosity, no fluorescence. |
| 1915 | 1920 | 100  Trace | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous to argillaceous, occasionally micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, occasionally very fine, moderately sorted, sub rounded to sub angular, common siliceous matrix, occasional off white argillaceous matrix, minor dark lithics, moderately hard to hard, poor visual porosity, no fluorescence. |
| 1920 | 1925 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, minor argillaceous, occasionally micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, well sorted, sub rounded to sub angular, common siliceous cement, rare off white argillaceous matrix, minor dark lithics, hard, very poor visual porosity, no fluorescence. |
| 1925 | 1930 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, arenaceous, minor argillaceous, occasionally micro micaceous, minor lithics, moderate hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, well sorted, sub rounded to sub angular, common siliceous cement, rare off white argillaceous matrix, minor dark lithics, trace greenish soft lithics, moderately hard to hard, poor visual porosity, no fluorescence. |
| 1930 | 1935 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark grey brown, commonly arenaceous, minor argillaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, very light to light grey, fine, well sorted, sub rounded to sub angular, common siliceous cement, rare off white argillaceous matrix, minor dark lithics, trace lithics, moderate hard to hard, poor visual porosity, no fluorescence. |
| 1935 | 1940 | 95  5 | SILTSTONE: dark grey, minor dark grey brown in part, dominantly arenaceous, minor argillaceous, locally common micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, very fine to fine, well sorted, sub angular to minor sub rounded, moderately to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, moderately hard to dominantly hard, very poor to tight visual porosity, no fluorescence. |
| 1940 | 1945 | 95  5 | SILTSTONE: dark to minor very dark grey brown, occasionally dark grey in part, argillaceous to arenaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, very fine to fine, well sorted, sub angular to minor sub rounded, moderately to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, moderately hard to dominantly hard, very poor to tight visual porosity, no fluorescence. |
| 1945 | 1950 | 90  10 | SILTSTONE: dark to minor very dark grey brown, occasionally dark grey in part, argillaceous to dominantly arenaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, very fine to fine, grading to arenaceous Siltstone in part, well sorted, sub angular to minor sub rounded, moderately to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, moderately hard to dominantly hard, tight visual porosity, no fluorescence. |
| 1950 | 1955 | 95  5 | SILTSTONE: dark to minor very dark grey brown, occasionally dark grey in part, argillaceous to arenaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, minor light green, very fine to minor fine, grading to arenaceous Siltstone in part, well sorted, sub angular to minor sub rounded, moderately to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, trace glauconite, moderately hard to dominantly hard, tight visual porosity, no fluorescence. |
| 1955 | 1960 | 95  5 | SILTSTONE: dark to very dark grey brown, occasionally dark grey in part, arenaceous to occasionally argillaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, very fine to minor fine, grading to arenaceous Siltstone in part, well sorted, sub angular to minor sub rounded, moderately to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, moderately hard to dominantly hard, tight visual porosity, no fluorescence. |
| 1960 | 1965 | 100  Trace | SILTSTONE: dark to very dark grey brown, dark grey in part, arenaceous to argillaceous, occasionally micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, very fine to minor fine, grading to arenaceous Siltstone in part, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, moderately hard to dominantly hard, tight visual porosity, no fluorescence. |
| 1965 | 1970 | 80  20 | SILTSTONE: dark to very dark grey, dark grey brown in part, arenaceous to minor argillaceous, commonly micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: light grey to off white, minor clear to translucent, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white argillaceous matrix, minor dark lithics, minor calcareous inclusions, moderately hard to dominantly hard, loose, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1970 | 1975 | 80  20 | SILTSTONE: dark to very dark grey, dark grey brown in part, dominantly arenaceous to minor argillaceous, commonly micro micaceous, minor lithics, moderately hard to hard, sub blocky to occasionally sub fissile.  SANDSTONE: off white, minor clear to translucent, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white argillaceous matrix, minor calcareous inclusions, moderately hard to dominantly hard, loose, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1975 | 1980 | 70  30 | SILTSTONE: dark to very dark grey, dark grey brown in part, dominantly arenaceous to minor argillaceous, commonly micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, minor clear to translucent, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white argillaceous matrix, minor calcareous inclusions, moderately hard to dominantly hard, loose, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1980 | 1985 | 60  40 | SILTSTONE: dark to very dark grey, dark grey brown in part, dominantly arenaceous to minor argillaceous, commonly micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1985 | 1990 | 80  20 | SILTSTONE: dark to very dark grey, dark grey brown in part, arenaceous to argillaceous, commonly micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1990 | 1995 | 90  10 | SILTSTONE: dark to very dark grey, dark grey brown in part, commonly arenaceous, grading to very fine Sandstone in part, minor to argillaceous, commonly micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose in part, tight visual porosity, poor inferred porosity, no fluorescence. |
| 1995 | 2000 | 95  5 | SILTSTONE: dark to very dark grey, dark grey brown in part, commonly arenaceous, minor to argillaceous, commonly micro micaceous, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to minor sub rounded, moderate siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose in part, tight visual porosity, poor inferred porosity, no fluorescence. |
| 2000 | 2005 | 90  10 | SILTSTONE: dark to very dark grey, dark grey brown in part, commonly arenaceous, minor to argillaceous, commonly micro micaceous, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to rare sub rounded, moderate siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose in part, tight visual porosity, poor to very poor inferred porosity, no fluorescence. |
| 2005 | 2010 | 80  20 | SILTSTONE: dark to very dark grey, dark grey brown in part, minor medium grey brown, commonly arenaceous, minor to argillaceous, commonly micro micaceous, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to rare sub rounded, moderate siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, loose in part, tight to very poor visual porosity, poor to very poor inferred porosity, no fluorescence. |
| 2010 | 2015 | 95  5 | SILTSTONE: dark to occasionally very dark grey, dark grey brown in part, minor medium grey brown, commonly arenaceous, minor to argillaceous, siliceous in part, commonly micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine to fine, well sorted, sub angular to rare sub rounded, moderate siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, tight to very poor visual porosity, no fluorescence. |
| 2015 | 2020 | 80  20 | SILTSTONE: dark to occasionally very dark grey, dark to medium grey brown in part, commonly arenaceous, minor to argillaceous, siliceous in part, commonly locally micro micaceous, moderately hard to hard, sub blocky to sub fissile, minor fissile.  SANDSTONE: off white, light grey in part, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional to minor off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2020 | 2025 | 90  10 | SILTSTONE: dark to occasionally very dark grey, dark to medium grey brown in part, argillaceous to arenaceous, locally siliceous in part, commonly locally micro micaceous, moderately hard to hard, sub blocky to sub fissile, minor fissile.  SANDSTONE: off white, light grey in part, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional to minor off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2025 | 2030 | 100  Trace | SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to dominantly arenaceous, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2030 | 2035 | Trace  100  Trace | CLAYSTONE: dark brown grey to grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to dominantly arenaceous, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: off white, light grey in part, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2037 | 2040 | 10  85  5 | CLAYSTONE: dark brown grey to grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to dominantly arenaceous, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2040 | 2043 | 20  80  Trace | CLAYSTONE: dark brown grey to grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to occasionally arenaceous, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile.  SANDSTONE: light grey, very fine, very well sorted, sub angular, moderate to strong siliceous cement, occasional off white to light grey argillaceous matrix, friable to moderately hard, tight visual porosity, no fluorescence. |
| 2043 | 2046 | 20  80 | CLAYSTONE: medium to dark brown grey, light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to occasionally arenaceous, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile. |
| 2046 | 2049 | 10  90 | CLAYSTONE: medium to dark brown grey, light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to arenaceous, minor grading to very fine Sandstone, trace disseminated pyrite, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile. |
| 2049 | 2052 | 20  80 | CLAYSTONE: medium to dark brown grey, light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, minor dark grey brown, argillaceous to arenaceous, minor grading to very fine Sandstone, locally micro micaceous, moderately hard to hard, sub blocky to sub fissile. |
| 2052 | 2055 | Trace  100 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to very dark grey, minor dark grey brown, argillaceous to arenaceous, minor grading to very fine Sandstone, locally micro micaceous, moderately hard to hard, sub blocky to occasionally sub fissile. |
| 2055 | 2058 | Trace  100 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to very dark grey, minor dark grey brown, argillaceous to commonly arenaceous, minor grading to very fine Sandstone, locally micro micaceous, moderately hard to hard, sub blocky to occasionally sub fissile. |
| 2058 | 2061 | Trace  100 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to occasionally dark grey, minor dark grey brown, argillaceous to commonly arenaceous, locally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2061 | 2064 | Trace  100 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to occasionally dark grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, locally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2064 | 2067 | 10  90 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to very dark grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, locally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2067 | 2070 | Trace  100 | CLAYSTONE: medium to dark brown grey, occasionally light to medium grey, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to occasionally medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, locally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2070 | 2073 | 100 | SILTSTONE: dark to occasionally medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, locally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2073 | 2076 | 100 | SILTSTONE: dark to medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, occasional micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2076 | 2079 | 10  90 | CLAYSTONE: medium to dark grey, occasionally light grey, dark brown grey in part, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to occasionally medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, occasional micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part. |
| 2079 | 2082 | 95  5 | SILTSTONE: dark to occasionally medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, occasional micro micaceous, minor disseminated pyrite, hard to very hard, sub blocky to occasionally sub fissile, blocky in part.  SANDSTONE: light grey, occasionally very light grey, fine, occasionally very fine, well sorted, sub angular, strong siliceous cement, occasional off white argillaceous matrix, moderately hard to hard, tight visual porosity, no fluorescence. |
| 2082 | 2085 | 90  10 | SILTSTONE: dark to occasionally grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, occasional micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part.  SANDSTONE: light grey, occasionally very light grey, fine, occasionally very fine, well sorted, sub angular, strong siliceous cement, occasional off white argillaceous matrix, moderately hard to hard, tight visual porosity, no fluorescence. |
| 2085 | 2088 | 100  Trace | SILTSTONE: dark to occasionally medium grey, minor dark grey brown, argillaceous to commonly arenaceous, grading to very fine Sandstone in part, occasionally micro micaceous, hard to very hard, sub blocky to occasionally sub fissile, blocky in part.  SANDSTONE: light grey, occasionally very light grey, fine, occasionally very fine, well sorted, sub angular, strong siliceous cement, occasional off white argillaceous matrix, moderately hard to hard, tight visual porosity, no fluorescence. |
| 2088 | 2091 | 90  10 | SILTSTONE: medium to dark grey, minor grey brown, arenaceous to occasionally argillaceous, micro micaceous, trace lithics, hard, occasionally moderately hard to very hard, sub fissile to sub blocky.  SANDSTONE: light grey, very fine to fine, well sorted, sub angular to occasionally angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2091 | 2094 | Trace  95  5 | CLAYSTONE: medium to dark grey, occasionally light grey, dark brown grey in part, silty in part, trace micro micaceous, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, arenaceous to occasionally argillaceous, micro micaceous, trace lithics, hard, occasionally moderately hard to very hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular to occasionally angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2094 | 2097 | Trace  95  5 | CLAYSTONE: medium to dark grey, occasionally light grey, dark brown grey in part, silty in part, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, arenaceous to occasionally argillaceous, micro micaceous, trace lithics, hard, occasionally moderately hard to very hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular to occasionally angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2097 | 2100 | 10  90  Trace | CLAYSTONE: medium to dark grey, occasionally light grey, light brown grey in part, silty in part, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, arenaceous to occasionally argillaceous, micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular to occasionally angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2100 | 2103 | 5  90  5 | CLAYSTONE: medium to dark grey, occasionally light grey, light brown grey in part, silty in part, moderately hard to occasionally firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, arenaceous to minor argillaceous, commonly micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular to occasionally angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2103 | 2106 | 5  85  10 | CLAYSTONE: medium brown grey, occasionally light grey, silty in part, moderately hard to occasionally firm, minor lithics, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, dominantly arenaceous to minor argillaceous, grading to very fine Sandstone in part, commonly micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2106 | 2109 | 10  70  20 | CLAYSTONE: light to medium brown grey, occasionally light grey, silty in part, moderately hard to firm, minor lithics, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, dominantly arenaceous to minor argillaceous, grading to very fine Sandstone in part, commonly micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2109 | 2112 | Trace  90  10 | CLAYSTONE: light to medium brown grey, occasionally light grey, silty in part, moderately hard to firm, minor lithics, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, minor grey brown, dominantly arenaceous to minor argillaceous, commonly grading to very fine Sandstone, commonly micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2112 | 2115 | 95  5 | SILTSTONE: dark to occasionally medium grey, minor grey brown, dominantly arenaceous to argillaceous, commonly micro micaceous, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2115 | 2118 | 100  Trace | SILTSTONE: dark to occasionally medium grey, minor grey brown, arenaceous to argillaceous, commonly micro micaceous, trace disseminated pyrite, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to occasionally fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, occasional dis-aggregated loose grains, tight visual porosity, very poor inferred porosity, no fluorescence. |
| 2118 | 2121 | 100  Trace | SILTSTONE: dark to occasionally very dark grey, minor grey brown, arenaceous to argillaceous, commonly micro micaceous, trace disseminated pyrite, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky.  SANDSTONE: light grey to minor off white, very fine to occasionally fine, well sorted, sub angular, moderate to strong siliceous cement, minor light grey argillaceous matrix, hard, tight visual porosity, no fluorescence. |
| 2121 | 2124 | 20  80 | CLAYSTONE: medium brown grey, occasionally light grey, silty in part, minor lithics, trace disseminated pyrite, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to occasionally very dark grey, minor grey brown, arenaceous to argillaceous, commonly micro micaceous, trace disseminated pyrite, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky. |
| 2124 | 2127 | 10  90 | CLAYSTONE: medium brown grey, occasionally light grey, silty in part, minor lithics, moderately hard to firm, trace disseminated pyrite, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to very dark grey, minor grey brown, arenaceous to argillaceous, commonly micro micaceous, occasional disseminated pyrite, trace lithics, hard, occasionally moderately hard, sub fissile to sub blocky, occasionally blocky. |
| 2127 | 2130 | Trace  100 | CLAYSTONE: medium brown grey, occasionally light grey, silty in part, minor lithics, trace disseminated pyrite, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to very dark grey, minor medium grey brown, arenaceous to argillaceous, minor grading to Claystone, locally micro micaceous, occasional disseminated pyrite, trace lithics, hard, occasionally very hard, sub fissile to sub blocky, occasionally blocky. |
| 2130 | 2133 | 10  90 | CLAYSTONE: medium to dark brown grey, silty in part, minor lithics, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, dark grey brown, dominantly arenaceous, occasionally grading to very fine Sandstone, minor argillaceous, commonly micro micaceous, trace lithics, hard to very hard, sub fissile to dominantly sub blocky, occasionally blocky. |
| 2133 | 2136 | 10  90 | CLAYSTONE: medium to dark brown grey, silty in part, minor lithics, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: medium to dark grey, dark grey brown, arenaceous to argillaceous, commonly micro micaceous, trace lithics, hard to very hard, sub fissile to dominantly sub blocky, occasionally blocky. |
| 2136 | 2139 | 20  80 | CLAYSTONE: medium to dark brown grey, silty in part, minor lithics, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: very dark to dark grey, dark grey brown, dominantly arenaceous, occasionally grading to very fine Sandstone, minor argillaceous, commonly micro micaceous, trace lithics, hard to very hard, sub fissile to dominantly sub blocky, occasionally blocky. |
| 2139 | 2142 | 20  80 | CLAYSTONE: medium to dark brown grey, silty in part, minor lithics, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, trace lithics, hard to very hard, sub fissile to dominantly sub blocky. |
| 2142 | 2145 | 10  90 | CLAYSTONE: medium to occasionally dark brown grey, silty in part, minor lithics, moderately hard to firm, sub blocky to occasionally blocky, minor fissile.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, minor localised disseminated pyrite, trace lithics, hard to very hard, sub fissile to dominantly sub blocky. |
| 2145 | 2148 | 10  90 | CLAYSTONE: medium to occasionally dark brown grey, silty in part, minor lithics, moderately hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2148 | 2151 | 5  95 | CLAYSTONE: medium to occasionally dark brown grey, silty in part, minor lithics, moderately hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to occasionally very dark grey, medium grey in part, dark grey brown, argillaceous to arenaceous, siliceous in part, locally micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2151 | 2154 | 30  70 | CLAYSTONE: medium to occasionally dark brown grey, silty in part, moderately minor lithics, hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to occasionally very dark grey, medium grey in part, dark grey brown, argillaceous to occasionally arenaceous, locally micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2154 | 2157 | 20  80 | CLAYSTONE: medium to occasionally dark brown grey, silty in part, minor lithics, moderately hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to minor very dark grey, medium grey in part, dark grey brown, argillaceous to occasionally arenaceous, locally commonly micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2157 | 2160 | 30  70 | CLAYSTONE: medium to occasionally dark brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to minor very dark grey, medium grey in part, dark grey brown, argillaceous to occasionally arenaceous, commonly micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2160 | 2163 | 20  80 | CLAYSTONE: medium to occasionally dark brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to occasionally fissile, minor sub blocky.  SILTSTONE: dark to minor very dark grey, medium grey in part, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to occasionally sub blocky. |
| 2163 | 2166 | 20  80 | CLAYSTONE: dark to occasionally medium brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to minor sub blocky.  SILTSTONE: dark to minor very dark grey, medium grey in part, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to occasionally sub blocky. |
| 2166 | 2169 | 10  80  10 | CLAYSTONE: dark to occasionally medium brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to minor sub blocky.  SILTSTONE: medium to dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to occasionally sub blocky.  SANDSTONE: off white to light grey, very fine, very well sorted, sub angular to minor sub rounded, strong siliceous cement, minor off white argillaceous matrix, hard to very hard, tight visual porosity, no fluorescence. |
| 2169 | 2172 | 15  80  5 | CLAYSTONE: dark to occasionally medium brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to minor sub blocky.  SILTSTONE: medium to dark grey, dark grey brown, argillaceous to arenaceous, common micro micaceous, rare disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to occasionally sub blocky.  SANDSTONE: off white to light grey, very fine, very well sorted, sub angular to minor sub rounded, strong siliceous cement, occasionally off white argillaceous matrix, hard to very hard, tight visual porosity, no fluorescence. |
| 2172 | 2175 | 30  70 | CLAYSTONE: dark to occasionally medium brown grey, medium grey, silty in part, minor lithics, moderately hard to firm, sub fissile to minor sub blocky.  SILTSTONE: medium to dark grey, dark grey brown, argillaceous, occasionally arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to occasionally sub blocky. |
| 2175 | 2178 | 30  70 | CLAYSTONE: dark to very dark grey, occasionally very dark grey black, silty in part, minor lithics, common micro micaceous, moderately hard, sub fissile to sub blocky.  SILTSTONE: dark to very dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2178 | 2181 | 20  80 | CLAYSTONE: dark to occasionally very dark grey, occasionally very dark grey black, silty in part, minor lithics, common micro micaceous, moderately hard, sub fissile to sub blocky.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2181 | 2184 | 20  80 | CLAYSTONE: dark to occasionally very dark grey, occasionally very dark grey black, silty in part, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to sub blocky.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to dominantly arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2184 | 2187 | 20  80 | CLAYSTONE: dark to occasionally very dark grey, occasionally very dark grey black, silty in part, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to occasionally sub blocky.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to dominantly arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2187 | 2190 | 20  80 | CLAYSTONE: dark to occasionally very dark grey, occasionally very dark grey brown, minor silty in part, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to occasionally sub blocky.  SILTSTONE: dark to occasionally very dark grey, dark grey brown, argillaceous to dominantly arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2190 | 2193 | 40  60 | CLAYSTONE: medium to occasionally dark grey, occasionally very dark grey brown, minor silty in part, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to occasionally sub blocky.  SILTSTONE: dark grey to occasionally medium grey, dark grey brown in part, argillaceous to arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2193 | 2196 | 50  50 | CLAYSTONE: dark to minor very dark grey, occasionally very dark grey brown, medium grey in part, minor silty in part, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to occasionally sub blocky.  SILTSTONE: dark grey to occasionally medium grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2196 | 2199 | 70  30 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, medium grey in part, minor silty in part, occasional pyrite nodules, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to dominantly sub blocky.  SILTSTONE: dark grey to occasionally medium grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2199 | 2202 | 80  20 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, medium grey in part, minor silty in part, occasional pyrite nodules, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to dominantly sub blocky.  SILTSTONE: dark grey to occasionally medium grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2202 | 2205 | 80  20 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, medium grey in part, minor silty, rare pyrite nodules, minor lithics, common micro micaceous, moderately hard to firm in part, sub fissile to dominantly sub blocky.  SILTSTONE: dark grey to occasionally medium grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2205 | 2208 | 90  10 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, rare silty, minor micro micaceous, hard to dominantly very hard, sub fissile to dominantly sub blocky.  SILTSTONE: dark grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2208 | 2211 | 95  5 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, rare silty, minor micro micaceous, hard to dominantly very hard, sub fissile to dominantly sub blocky.  SILTSTONE: dark grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2211 | 2214 | 100  Trace | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, rare silty, minor micro micaceous, rare disseminated pyrite, hard to dominantly very hard, sub blocky to minor sub fissile, occasionally blocky.  SILTSTONE: dark grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2214 | 2217 | 100  Trace | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, rare silty, minor micro micaceous, rare nodular and disseminated pyrite, hard to dominantly very hard, sub blocky to occasionally blocky.  SILTSTONE: dark grey, minor very dark grey, dark grey brown in part, argillaceous to minor arenaceous, commonly micro micaceous, minor localised disseminated pyrite, trace lithics, moderately hard to hard, sub fissile to sub blocky. |
| 2217 | 2220 | 100 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, rare silty, rare micro micaceous, rare nodular and trace disseminated pyrite, hard to dominantly very hard, sub blocky to occasionally blocky. |
| 2220 | 2223 | 100 | CLAYSTONE: very dark to dark grey, occasionally very dark grey brown, minor silty, rare micro micaceous, rare nodular and trace disseminated pyrite, minor lithics, hard to dominantly very hard, sub blocky to occasionally blocky. |
| 2223 | 2226 | 100 | CLAYSTONE: very dark grey to greyish black, occasionally very dark greyish brown, slightly silty, rare micro micaceous, rare disseminated pyrite, hard to dominantly very hard, sub blocky to occasionally blocky. |
| 2226 | 2229 | 100 | CLAYSTONE: very dark grey to greyish black, very dark greyish brown in part, minor silty, rare micro micaceous, rare disseminated pyrite, hard to very hard, sub blocky to blocky, occasionally sub fissile. |
| 2229 | 2232 | 100 | CLAYSTONE: very dark grey to greyish black, dark greyish brown in part, minor silty, rare micro micaceous, rare to locally common disseminated pyrite, rare nodular pyrite, hard to very hard, sub blocky to blocky, minor sub fissile. |
| 2232 | 2235 | 100 | CLAYSTONE: very dark grey to black, dark greyish brown in part, minor silty, rare micro micaceous, rare to locally common nodular and disseminated pyrite, hard to very hard, dominantly sub blocky to minor blocky, minor sub fissile. |
| 2235 | 2239 | 100 | CLAYSTONE: very dark grey to black, very dark greyish brown in part, minor silty, rare micro micaceous, trace to common nodular and disseminated pyrite, hard to very hard, sub blocky, minor sub fissile. |
|  |  |  | **Core 1: 2239m – 2275.54m**  **Cut: 36.54m**  **Recovered: 36.54m (100%)** |
| 2239 | 2241 | 100 | CLAYSTONE: black, very dark grey, rare micro mica, rare disseminated pyrite, trace calcite, hard, sub blocky to trace sub fissile.  ***Trace fissile cavings to 35mm on bottoms up after the trip to core.*** |
| 2241 | 2244 | 100 | CLAYSTONE: very dark grey, trace micro mica, trace disseminated pyrite, moderately hard to hard, blocky to sub fissile. |
| 2244 | 2247 | 100 | CLAYSTONE: black, very dark grey, trace micro mica, trace disseminated pyrite, moderately hard to very hard, blocky to sub blocky occasionally sub fissile. |
| 2247 | 2250 | 100 | CLAYSTONE: very dark grey, trace micro mica, trace disseminated pyrite, moderately hard to hard, blocky to sub fissile. |
| 2250 | 2253 | 100 | CLAYSTONE: black, very dark grey, trace micro mica, trace disseminated pyrite, moderately hard to very hard, blocky to sub blocky occasionally sub fissile. |
| 2253 | 2256 | 100 | CLAYSTONE: black, very dark grey, trace micro mica, trace disseminated pyrite, moderately hard to very hard, blocky to sub blocky occasionally sub fissile. |
| 2256 | 2259 | 100 | CLAYSTONE: black, very dark grey, trace micro mica, moderately hard to very hard, blocky to sub blocky occasionally sub fissile. |
| 2259 | 2262 | 100 | CLAYSTONE: black, very dark grey, trace micro mica moderately hard to hard, blocky to sub blocky occasionally sub fissile. |
| 2262 | 2265 | 100 | CLAYSTONE: black, very dark grey, trace micro mica moderately hard to hard, blocky to sub blocky occasionally sub fissile. |
| 2265 | 2268 | 100 | CLAYSTONE: very dark grey, very dark grey black, rare micro mica, moderately hard to hard, sub blocky to occasionally sub fissile. |
|  |  |  | ***2269 – 2275m Not circulated to surface after coring. Samples caught after XLOT bottoms up.*** |
| 2268 | 2271 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to occasionally sub fissile. |
| 2271 | 2274 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to occasionally sub fissile. |
| 2274 | 2277 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, common nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2277 | 2280 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2280 | 2283 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2283 | 2286 | 20  80 | SILTSTONE: dark grey to very dark grey, grading to silty CLAYSTONE, minor micro mica, minor disseminated pyrite, moderately hard, blocky to sub blocky.  CLAYSTONE: very dark grey, occasionally very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2286 | 2289 | 100 | CLAYSTONE: very dark grey, very dark grey black, trace micro mica, trace disseminated pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2289 | 2292 | 40  60 | SILTSTONE: medium grey, light to medium grey mottled, trace calcareous fragments, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, slightly silty, trace nodular pyrite, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 2292 | 2295 | 30  70 | SILTSTONE: medium grey, light to medium grey mottled, trace calcareous fragments, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, slightly silty, trace nodular pyrite, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 2295 | 2298 | 20  80 | SILTSTONE: medium grey, light to medium grey mottled, argillaceous in part, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, medium brownish grey, slightly silty, trace nodular pyrite, firm to moderately hard, blocky to sub blocky. |
| 2298 | 2301 | 20  80 | SILTSTONE: medium grey, medium dark grey, argillaceous in part, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, medium brownish grey, slightly silty, trace nodular pyrite, firm to moderately hard, dispersive in part, blocky to sub blocky. |
| 2301 | 2304 | 20  80 | SILTSTONE: medium grey, light to medium grey mottled, argillaceous in part, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, slightly silty, trace micro mica, moderately hard to hard, blocky to sub fissile. |
| 2304 | 2307 | 40  60 | SILTSTONE: medium grey, light to medium grey mottled, argillaceous in part, trace nodular pyrite, rare micro mica, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, medium brownish grey, slightly silty, firm to moderately hard, dispersive in part, blocky to sub blocky. |
| 2307 | 2310 | 30  70 | SILTSTONE: medium grey, occasionally medium light grey to light grey, mottled, argillaceous, trace to occasional nodular pyrite, rare micro micaceous, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, commonly medium brownish grey, slightly silty, dominantly firm to moderately hard, dispersive in part, blocky to sub blocky. |
| 2310 | 2313 | 40  60 | SILTSTONE: medium grey, occasionally medium light grey to light grey, mottled, argillaceous, trace to occasional nodular pyrite, rare micro micaceous, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, commonly medium brownish grey, slightly silty, dominantly firm to moderately hard, dispersive in part, blocky to sub blocky, minor sub fissile. |
| 2313 | 2316 | 30  70 | SILTSTONE: medium grey, occasionally medium light grey to light grey, mottled, argillaceous, slightly arenaceous in part, trace nodular pyrite, rare to occasionally micro micaceous, trace calcareous fragments, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, commonly medium brownish grey, slightly silty, dominantly firm to moderately hard, dispersive in part, blocky to sub blocky, minor sub fissile. |
| 2316 | 2319 | 20  80 | SILTSTONE: medium grey to medium dark grey, occasionally medium light grey, mottled, argillaceous, slightly arenaceous in part, trace nodular pyrite, rare to occasionally micro micaceous, friable to moderately hard, blocky to sub blocky.  CLAYSTONE: medium grey to medium light grey, commonly medium brownish grey, slightly silty, dominantly firm to moderately hard, dispersive in part, blocky to sub blocky, minor sub fissile. |
| 2319 | 2322 | 30  70 | SILTSTONE: medium grey to medium dark grey, occasionally medium to light grey, argillaceous, slightly very finely arenaceous in part, rare to trace nodular and disseminated pyrite, rare micro micaceous, minor calcareous fragments, friable to moderately hard, sub blocky to blocky.  CLAYSTONE: medium grey to medium light grey, medium to light brownish grey in part, slightly silty, rare disseminated pyrite, dominantly firm to moderately hard, dispersive in part, sub blocky to blocky, minor sub fissile. |
| 2322 | 2325 | 40  60 | SILTSTONE: medium grey to medium dark grey, occasionally medium to light grey, argillaceous, very finely arenaceous in part, rare to trace nodular and disseminated pyrite, rare to trace micro micaceous, moderately hard, sub blocky to blocky.  CLAYSTONE: medium grey to medium light grey, medium to light brownish grey in part, occasionally medium dark grey, slightly silty, rare disseminated pyrite, dominantly firm to moderately hard, dispersive in part, sub blocky to blocky, minor sub fissile. |
| 2325 | 2328 | 60  40 | SILTSTONE: medium grey to medium dark grey, occasionally medium to light grey, argillaceous, very finely arenaceous in part, rare to trace nodular and disseminated pyrite, rare to trace micro micaceous, friable to moderately hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium to light brownish grey in part, occasionally medium dark grey, slightly silty, rare disseminated pyrite, dominantly firm to moderately hard, dispersive in part, sub blocky to blocky, minor sub fissile. |
| 2328 | 2331 | 40  60 | SILTSTONE: medium grey to medium dark grey, occasionally medium to light grey, argillaceous, very finely arenaceous in part, rare to trace nodular and disseminated pyrite, rare to trace micro micaceous, friable to moderately hard, occasionally hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium to light brownish grey in part, occasionally medium dark grey, slightly silty, rare disseminated pyrite, dominantly firm to moderately hard, dispersive in part, sub blocky to blocky, minor sub fissile. |
| 2331 | 2334 | 50  50 | SILTSTONE: medium grey to medium dark grey, argillaceous, commonly arenaceous, micro micaceous, trace nodular and disseminated pyrite, moderately hard, occasionally hard to very hard, sub blocky to minor sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2334 | 2337 | 60  40 | SILTSTONE: medium grey to medium dark grey, argillaceous, commonly arenaceous, micro micaceous, trace nodular and disseminated pyrite, moderately hard, occasionally hard to very hard, sub blocky to minor sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2337 | 2340 | 70  30 | SILTSTONE: medium grey to medium dark grey, argillaceous, commonly arenaceous, micro micaceous, trace nodular and disseminated pyrite, moderately hard, occasionally hard to very hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2340 | 2343 | 60  40 | SILTSTONE: medium grey to medium dark grey, medium to light grey in part, argillaceous, commonly arenaceous, minor micro micaceous, moderately hard, occasionally firm, occasionally hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2343 | 2346 | 60  40 | SILTSTONE: medium grey to medium dark grey, medium to light grey in part, argillaceous, commonly arenaceous, minor micro micaceous, rare nodular pyrite moderately hard, occasionally firm, occasionally hard, sub blocky to sub fissile, minor fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2346 | 2349 | 70  30 | SILTSTONE: medium grey to medium dark grey, medium to medium light grey in part, argillaceous, commonly arenaceous, minor micro micaceous, rare nodular pyrite, moderately hard, occasionally soft to firm, sub blocky to sub fissile, minor fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2349 | 2352 | 80  20 | SILTSTONE: medium grey to medium dark grey, medium to medium light grey in part, argillaceous, commonly arenaceous, minor micro micaceous, rare nodular pyrite, moderately hard, occasionally soft to firm, sub blocky to sub fissile, minor fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey in part, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2352 | 2355 | 70  30 | SILTSTONE: medium grey to medium dark grey, argillaceous, commonly very finely arenaceous, trace micro mica, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2355 | 2358 | 80  20 | SILTSTONE: medium grey to medium dark grey, argillaceous, commonly very finely arenaceous, trace micro mica, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  CLAYSTONE: medium grey to medium light grey, medium brownish grey, rare disseminated pyrite, firm, soft to dispersive in part, sub blocky to sub fissile. |
| 2358 | 2361 | 30  70 | SILTSTONE: medium grey to medium dark grey, argillaceous in part, rare micro mica, rare nodular pyrite, moderately hard, sub blocky to sub fissile.  CLAYSTONE: medium light grey, medium grey, medium brownish grey, rare nodular pyrite, firm to moderately hard, sub blocky to sub fissile. |
| 2361 | 2364 | 40  60 | SILTSTONE: medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, occasionally medium grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2364 | 2367 | 30  70 | SILTSTONE: medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, occasionally medium grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2367 | 2370 | 20  80 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, dark grey in part, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2370 | 2373 | 20  80 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, dark grey in part, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2373 | 2376 | 100 | CLAYSTONE: medium dark grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2376 | 2379 | 10  90 | SILTSTONE: medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, occasionally dark grey, firm to moderately hard, sub blocky to sub fissile. |
| 2379 | 2382 | 10  90 | SILTSTONE: medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to medium grey, occasionally dark grey, firm to moderately hard, sub blocky to sub fissile. |
| 2382 | 2385 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous, rare micro mica, friable to predominantly moderately hard, blocky to sub blocky.  CLAYSTONE: medium grey, occasionally dark grey, firm to predominantly moderately hard, sub blocky to sub fissile. |
| 2385 | 2388 | 30  70 | SILTSTONE: light to medium grey, very finely arenaceous, rare micro mica, friable to predominantly moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2388 | 2391 | 30  70 | SILTSTONE: light to medium grey, very finely arenaceous, rare micro mica, friable to predominantly moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2391 | 2394 | 20  80 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2394 | 2397 | 30  70 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: medium dark grey, trace micro mica, moderately hard, sub blocky to sub fissile. |
| 2397 | 2400 | 100 | CLAYSTONE: light to predominantly medium grey, firm, to moderately hard, blocky to sub blocky. |
| 2400 | 2403 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to predominantly medium grey, firm, to moderately hard, blocky to sub blocky. |
| 2403 | 2406 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous in part, trace micro mica, moderately hard, blocky to sub blocky.  CLAYSTONE: light to predominantly medium grey, firm, to moderately hard, blocky to sub blocky. |
| 2406 | 2409 | 20  80 | SILTSTONE: light to medium grey, occasionally dark brownish grey, very finely arenaceous in part, trace micro mica, rare disseminated pyrite, moderately hard, blocky to sub blocky.  CLAYSTONE: light to predominantly medium grey, firm, to moderately hard, blocky to sub blocky. |
| 2409 | 2412 | 20  80 | SILTSTONE: light to medium grey, occasionally dark brownish grey, very finely arenaceous in part, trace micro mica, rare disseminated pyrite, moderately hard, blocky to sub blocky, minor sub fissile.  CLAYSTONE: light to predominantly medium grey, occasionally medium to medium dark grey, firm, to moderately hard, blocky to sub blocky. |
| 2412 | 2415 | 30  70 | SILTSTONE: light to medium grey, occasionally dark brownish grey, very finely arenaceous in part, minor argillaceous, trace micro mica, rare disseminated pyrite, moderately hard, blocky to sub blocky, minor sub fissile.  CLAYSTONE: light to predominantly medium grey, occasionally medium to medium dark grey, slightly silty in part, firm to moderately hard, blocky to sub blocky. |
| 2415 | 2418 | 30  70 | SILTSTONE: light to medium grey, occasionally dark brownish grey, very finely arenaceous in part, minor argillaceous, trace micro mica, rare disseminated pyrite, moderately hard, trace hard to very hard, blocky to sub blocky, minor sub fissile.  CLAYSTONE: light to predominantly medium grey, occasionally medium to medium dark grey, slightly silty in part, rare very dark grey laminations, firm to moderately hard, blocky to sub blocky. |
| 2418 | 2421 | 20  80 | SILTSTONE: light to medium dark grey, commonly dark grey, very finely arenaceous, slightly argillaceous, trace to locally common micro mica, rare nodular pyrite, moderately hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor medium to light grey, slightly silty, rare nodular and disseminated pyrite, dominantly moderately hard, occasionally firm, sub blocky to blocky, minor sub fissile. |
| 2421 | 2424 | 10  90 | SILTSTONE: light to medium dark grey, commonly dark grey, very finely arenaceous, slightly argillaceous, trace to locally common micro mica, rare nodular pyrite, moderately hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, occasionally micro micaceous, slightly silty, rare nodular and disseminated pyrite, dominantly moderately hard, occasionally firm, sub blocky to blocky, minor sub fissile. |
| 2424 | 2427 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, slightly silty, rare disseminated pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2427 | 2430 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty, rare disseminated pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2430 | 2433 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty, rare disseminated and nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2433 | 2436 | 10  90 | SILTSTONE: medium dark grey to very dark grey, very finely arenaceous, argillaceous, minor micro micaceous, moderately hard to hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor to locally very silty grading to argillaceous siltstone in part, rare disseminated pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2436 | 2439 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor to locally very silty, common to locally abundant nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2439 | 2442 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor to locally very silty, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2442 | 2445 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2445 | 2448 | trace  100 | SILTSTONE: medium dark grey to very dark grey, very finely arenaceous, argillaceous, minor micro micaceous, moderately hard to hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2448 | 2451 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2451 | 2454 | 100 | CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2454 | 2457 | 10  90 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2457 | 2460 | 10  90 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2460 | 2463 | 10  90 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2463 | 2466 | 20  80 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace to locally common nodular pyrite, moderately hard, occasionally soft to firm, sub blocky, minor sub fissile. |
| 2466 | 2469 | 20  80 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, rare pyrite veins, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2469 | 2472 | 20  80 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, rare calcite veins, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2472 | 2475 | 20  80 | SILTSTONE: medium dark grey to very dark grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2475 | 2478 | 20  80 | SILTSTONE: medium dark grey to very dark grey, rarely medium to light grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2478 | 2481 | 30  70 | SILTSTONE: medium dark grey to very dark grey, occasionally medium to light grey, argillaceous, siliceous in part, minor micro mica, trace disseminated pyrite, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2481 | 2484 | 20  80 | SILTSTONE: medium dark grey to very dark grey, occasionally medium to light grey, argillaceous, siliceous in part, minor micro mica, trace disseminated pyrite, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2484 | 2487 | 10  90 | SILTSTONE: medium dark grey to very dark grey, rarely medium to light grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, minor micro micaceous, minor silty locally grading to argillaceous SILTSTONE in part, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2487 | 2490 | 20  80 | SILTSTONE: medium dark grey to dark brownish grey, rarely medium to light grey, argillaceous, siliceous in part, minor micro mica, hard to very hard, sub blocky to blocky.  CLAYSTONE: very dark grey to greyish black, dark brownish grey in part, minor micro micaceous, minor silty, trace nodular pyrite, moderately hard, occasionally firm, sub blocky, minor sub fissile. |
| 2490 | 2493 | 100 | CLAYSTONE: very dark grey black, trace silty in part, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2493 | 2496 | 100 | CLAYSTONE: very dark grey black, trace silty in part, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2496 | 2499 | 100 | CLAYSTONE: very dark grey black, trace silty in part, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2499 | 2502 | 100 | CLAYSTONE: very dark grey black, slightly silty in part, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2502 | 2505 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky.  CLAYSTONE: very dark grey black, slightly silty in part, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2505 | 2508 | 100 | CLAYSTONE: very dark grey black, locally with trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2508 | 2511 | 100 | CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2511 | 2514 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2514 | 2517 | 100 | CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2517 | 2520 | 100 | CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2520 | 2523 | 10  90 | SILTSTONE: light to medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2523 | 2526 | 100 | CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2526 | 2529 | 100 | CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2529 | 2532 | 100 | CLAYSTONE: very dark grey black, trace micro mica, common nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2532 | 2535 | trace  100 | SILTSTONE: light to medium grey, very finely arenaceous, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, rare nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2535 | 2538 | 5  95 | SILTSTONE: medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2538 | 2541 | 5  95 | SILTSTONE: medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2541 | 2544 | 10  90 | SILTSTONE: medium grey, very finely arenaceous, trace calcite fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2544 | 2547 | 100 | CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2547 | 2550 | 10  90 | SILTSTONE: light to occasionally medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2550 | 2553 | 100 | CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, trace calcareous fragments, moderately hard to hard, sub blocky to sub fissile. |
| 2553 | 2556 | 10  90 | SILTSTONE: light to occasionally medium grey, very finely arenaceous, trace calcareous fragments, moderately hard, blocky  CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2556 | 2559 | 100 | CLAYSTONE: very dark grey black, trace micro mica, trace nodular pyrite, moderately hard to hard, sub blocky to sub fissile. |
| 2559 | 2562 | 100 | CLAYSTONE: very light grey to light grey, occasionally medium grey, common siliceous, trace nodular pyrite, minor calcareous fragments, moderately hard to hard, blocky to sub fissile. |
| 2562 | 2565 | 100 | CLAYSTONE: very light grey to light grey, occasionally medium grey, common siliceous, trace nodular pyrite, minor calcareous fragments, moderately hard to hard, blocky to sub fissile. |
| 2565 | 2568 | 100 | CLAYSTONE: very light to medium grey, siliceous, trace nodular pyrite, common calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2568 | 2571 | 100 | CLAYSTONE: light to medium grey, trace calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2571 | 2574 | 100 | CLAYSTONE: light to predominantly medium grey, common calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2574 | 2577 | 100 | CLAYSTONE: light to medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2577 | 2580 | 100 | CLAYSTONE: light to medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2580 | 2583 | 100 | CLAYSTONE: light to medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2583 | 2586 | 100 | CLAYSTONE: light to medium grey, common calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2586 | 2589 | 100 | CLAYSTONE: light to predominantly medium grey, common calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2589 | 2592 | 100 | CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2592 | 2595 | 10  90 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2595 | 2598 | 20  80 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2598 | 2601 | 30  70 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2601 | 2604 | 40  60 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2604 | 2607 | 30  70 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence, grading to arenaceous LIMESTONE.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
| 2607 | 2609 | 70  30 | SANDSTONE: white, translucent, very light grey, very fine to fine grained, well sorted, sub rounded, calcareous and siliceous cement, common white argillaceous matrix, minor calcareous fragments, friable, poor visual porosity, no fluorescence, grading to arenaceous LIMESTONE.  CLAYSTONE: light to occasionally medium grey, minor calcareous fragments, moderately hard, sub blocky to sub fissile. |
|  |  |  | **Total Depth 2609m MDRT reached at 18:45hrs on 16/10/15** |