

NW NATURAL
IW23a-22-65
SECTION 22, T6N, R5W
COLUMBIA COUNTY, OREGON



CORE DESCRIPTIONS ARE FROM SAMPLE CHIPS, TAKEN FROM EXPOSED ENDS OF THREE FOOT CUT AND IN-SLEEVE 4 3/4" AND 3" CORES

CORE #1 1273'-1303' 0.0' RECOVERED

CORE #2 1303'-1307' 2.3' RECOVERED

1303.0' SHALEY SILTSTONE: MEDIUM GRAY GRAYBROWN, VERY FINELY SILTY TEXTURE, MOD FIRM, THINLY SCATTERED MICA WITH OCCASIONAL BIOT BOOKS, MICROPYRITE IP, FIRM DENSE BLOCKY TO MICROVARVED, SOME CALCAREOUS MATRIX, SUBWAXY ON FRESH BREAK

CORE #3 1307'-1311' 3.5' RECOVERED

1310.5' SHALE/SHALEY SILTSTONE: LIGHT GRAY MOTTLED WITH A SILTY/GRANNULAR MOTTLED TEXTURE, MOD TO VERY FIRM, PRED VERY FINELY SANDY QUARTZ, FINELY AND EVENLY DISM. MICA AND MICROPYRITE, INCREASED AND EVENLY SCATTERED FINE CARB. GRAINS, SOME GLASSY ANHED. QUARTZ

CORE #4 1311'-1340' 29.3' RECOVERED

1340.3' MUDSTONE/SILTSTONE: MED GRAY GRAYBROWN, VERY FINELY SILTY TEXTURE, MOD FIRM, THINLY SCATTERED MICA WITH OCCASIONAL BIOT BOOKS, MICROPYRITE IP, FIRM DENSE BLOCKY TO MICROVARVED, SOME CALCAREOUS MATRIX, SUBWAXY

CORE #5 1340'-1370' 29.5' RECOVERED

1342.0' SHALE: BECOMING DARK GRAY, FIRM TO VERY FIRM, SUBWAXY ON FRESH BREAH, PART DENSE TO AMORPH PART MICROVARVED/SUBLAMINATED, SOME FINELY DISM. MICA, DECREASED/SCATTERED CARB. GRAINS/FLAKES, RARE MICROPYRITE, SLIGHTLY SILTY TEXTURE

1370' SILTSTONE/SILTY SHALE: LIGHT BROWNGRAY AND BROWN MOTTLED, MOSTLY SOFT TO SLIGHTLY FRIM FINELY GRANNULAR TEXTURE, EVENLY DISM. DARK CARB. FRAGMENTS/GRAINS AND VERY FINELY MICACEOUS, RR SMALL CALCITE/FELDSPAR INCLUSIONS, RARE TUFFACEOUS MAT., PRED NON-QUARTZ

CORE #6 1370'-1372' 2.0' RECOVERED

1372' SHALEY SILTSTONE: LIGHT GRAY MOTTLED WITH A SILTY/GRANNULAR MOTTLED TEXTURE, MOD TO VERY FIRM, PRED VERY FINELY SANDY QUARTZ, FINELY AND EVENLY DISM. MICA AND MICROPYRITE, INCREASED AND EVENLY SCATTERED FINE CARB. GRAINS, SOME GLASSY ANHED. QUARTZ

CORE #7 1372'-1402' 30.0' RECOVERED

1393.1' SHALE/SHALEY SILTSTONE: LIGHT BROWN, MODERATELY FIRM TO SOFT IN PART, PRED. EVENLY DENSE TO MICROGRANNULAR TEXTURE, VERY THINLY VARVED AND LAMINATED IN PART, MICROPYRITIC, RARE CARBONACEOUS GRAINS, SLIGHTLY CALCAREOUS AND WATER SENSITIVE

1396.2' SANDSTONE: OPAQUE TRANSL. GLASSY IN PART S&P, FINE GRAIN, WELL SORTED, ANGULAR, WEAK GRAIN SUPPORT WITH MOSTLY NO INFILL OR ARGILLACEOUS MATRIX, ABUNDANT CARBONACEOUS GRAINS, MICOPYRITE AND PYRITE CLUSTERS THROUGHOUT, MINOR FELDSPAR AND RARE TUFF MAT.

CORE #8 1403'-1418' 12.1' RECOVERED

1414.5' SANDSTONE: S&P OPAQUE TO SLIGHTLY FROSTED CLEAR-GLASSY IN PART, VERY FINE TO FINE GRAIN AND MOD. SORTED, ANGULAR, ABUNDANT MICA AND BIOTITE BOOKS, ANHEDRAL QUARTZ W/ RARE XLN SURFACES, INTERGRAN. MICROPYR., MINOR FELDS. AND RARE GLAUC/CHLORITE?, SL CALC

CORE #9 1418'-1444' 15.0' RECOVERED

1423.2' SANDSTONE PREDOMINENTLY AS ABOVE WITH COMMON MICA THROUGHOUT AND MINOR ACCESSORIES, INCREASED VARICOLORED GRAINS- MOSTLY UNEVENLY SCATTERED CHLORITE, INCREASED MICROPYRITE AND SMALL PYRITE CLUSTERS, TRACE SILTY INFILL- REMAINS FRIABLE THROUGHOUT

CORE #10 1444'-1474' 5.5' RECOVERED

1450.5' SANDSTONE: PART GRAYBROWN MOTTLED, FINE TO VERY FINE GRAI, ANGULAR GLASSY HARD-TIGHT CALCAREOUS CEMENT, CARB. GRAINS--IN CONTACT WITH--LIGHT TAN & S&P, VERY FRIABLE AND POROUS, COMMON MICA AND CARB. GRAINS, GRAIN SUPPORTED AND SLIGHTLY CALC., PYRITIC

CORE #11 1474'-1494' 15.6' RECOVERED

1494' SANDSTONE: LIGHT GRAY OPAQUE TO TRANSLUCENT GLASSY, PRED. FINE TO OCCASIONALLY MEDIUM GRAIN, WELL SORTED ANGULAR, ABUNDANT MICA AND OCC. BOOKS, SOME BIOTITE ALTERED TO CHLORITE, TRACE PYRITE, LOOSE CEMENT VERY FRIABLE, SLIGHTLY CALCAREOUS, GOOD VIS POR.

CORE #12 1494'-1519' 24' RECOVERED

1502.2' SANDSTONE: S&P OPAQUE TO SL FROSTED CLEAR-GLASSY IN PART, VERY FINE TO FINE GRAIN AND MOD. SORTED, ANGULAR, ABUNDANT MICA AND BIOTITE BOOKS, ANHEDRAL QUARTZ W/ RARE XLN SURFACES, INTERGRAN. MICROPYR., MINOR FELDS. AND RARE GLAUC/CHLORITE?, SLIGHTLY CALC

CORE #13 1519'-1543' 24.7' RECOVERED

1542.7' SILTSTONE/SANDSTONE: LIGHT GRAY, SILTY TO VERY FINE GRAIN, WELL SORTED, OPAQUE ANGULAR ALTERNATING LAMINATIONS OF SS, CARB MAT., MICA, THICKNESS VARIABLE UP TO 0.5MM, NO VIS INTGRAN POROSITY, POSSIBLE INTERLAMINAR POROSITY, TRACE PLANT FOS IN CARB LAMS.

1521' SANDSTONE: LIGHT GRAY OPAQUE/TRANSL., VERY FINE TO FINE GRAIN, WELL SORTED, VERY FRIABLE, SOFT ANGULAR, ABUNDANT MICA, OCCASIONAL BIOTITE ALTERED TO CHLORITE, SLIGHTLY CALCAREOUS, MODERATE VISIBLE POROSITY

CORE #14 1543'-1569' 11.2' RECOVERED

1550.2' SANDSTONE: LIGHT GRAY OPAQUE/TRANSL., VERY FINE-FINE GRAIN, SILTY IN PART, MOD. TO WELL SORTED, SOFT-FRIABLE, ABUNDANT MICA AND COMMON MICA LAMINATIONS UP TO 0.25 MM THICK, BIOTITE ALTERED TO CHLORITE IN PART, ARGILLACEOUS INFILL IN PART, SLIGHTLY CALC.

1554.2' SILTSTONE: MEDIUM TO DARK GRAY, MOSTLY SILTY QUARTX, WELL SORTED, SOME MICA, MICRO CROSS BEDDING, INTERBEDDED WITH PYRITE-RICH SANDSTONE, SOFT TO FIRM, NON-CALCAREOUS, SOME CARBONACEOUS FLAKES

1547.2' SILTSTONE: MEDIUM DARK GRAY, PRED. SILTY/GRANNULAR, WELL SORTED, SCATTERED MICA, ABUNDANT CARBONACEOUS MATERIAL/LAMINATIONS, OCCASIONAL PLANT FOSSILS, SLIGHTLY ARGILLACEOUS, VERY SLIGHTLY CALCAREOUS, FIRM

CORE #15 1569'-1594' 23.5' RECOVERED

1571' SANDSTONE: LIGHT GRAY OPAQUE/TRANSL., VERY FINE-FINE GRAIN, SILTY IN PART, MOD. TO WELL SORTED, SOFT-FRIABLE, ABUNDANT MICA AND COMMON MICA LAMS, BIOTITE ALTERED TO CHLORITE IN PART, ARGILLACEOUS INFILL IN PART, SLIGHTLY CALC.

CORE #16 1594'-1619' 22.7' RECOVERED

1516.7' SANDSTONE: LIGHT GRAY OPAQUE, VERY FINE TO FINE GRAIN, WELL SORTED VERY SOFT ABUNDANT MICA, TRACE PYRITE, SLIGHTLY ARGILLACEOUS, SLIGHTLY TO MODERATELY CALCAREOUS, OCCASIONAL BIOTITE ALTERED TO CHLORITE, TRACE CARBONACEOUS MATERIAL, GOOD VISIBLE POROSITY

CORE #17 1619'-1649' 26.2' RECOVERED

1629.2' SANDSTONE: LIGHT GRAY TRANSL., OCCASIONALLY GLASSY, VERY FINE TO FINE GRAIN, WELL SORTED, VERY SOFT AND FRIABLE, ABUNDANT MICA, ABUNDANT BIOTITE LAMINATIONS, CHLORITE IN PART, TRACE PYRITE, SLIGHTLY ARGILLACEOUS, SLIGHTLY TO NON-CALCAREOUS, GOOD VIS POR.

CORE #18 1649'-1673' 22.5' RECOVERED

1661.3' SANDSTONE: LIGHT GRAY OPAQUE TO TRANSLUCENT GLASSY, PRED. FINE TO OCCASIONALLY MEDIUM GRAIN, WELL SORTED ANGULAR, ABUNDANT MICA AND OCC. BOOKS, SOME BIOTITE ALTERED TO CHLORITE, TRACE PYRITE, LOOSE CEMENT VERY FRIABLE, SLIGHTLY CALCAREOUS, GOOD VIS POR.