LEVIATHAN PROJECT LV09-001 Drillhole Stratigraphic Column

LV09-001 Qa **TERTIARY SAND - Qa** Clayey quartz sand **BUKALARA SANDSTONE - CIb** Fine-medium and fine-grained sandstone with siltstone interbeds. Bedding sub-horizontal (5 degrees) Clb 100m YALCO FORMATION - Pmj Silicified dololutite at top becoming less silicic down hole, Pmi with minor dolarenite. Bedding sub-horizontal (5 degrees) **HOT SPRING MEMBER - Pmnh** Dololutite with calcareous calcarenite, dolomitic mudstone, siltstone, Pmnh and fine-grained sandstone, plus minor carbonaceous shale. Bedding sub-horizontal (5 degrees) 200m **CARANBIRINI MEMBER - Pmnc** Pmnc Dolomitic sandstone, siltstone, mudstone, shale, and pyritic carbonaceous shale, plus dololutite. Bedding sub-horizontal (5 degrees) 300m **REWARD DOLOMITE - Pmx** Alternating cycles of massive dololutite with finely-laminated Pmx carbonate/mudstone shale. Some pelletal dolarenite near top of unit. Bedding sub-horizontal (5 degrees) 400m **BARNEY CREEK FORMATION - Pmq** Finely-laminated carbonaceous and pyritic shale, with dololutite. Pmq Section between 472-489m rich in sulfides, including possible sphalerite. Bedding mostly sub-horizontal (5 degrees) 500m ?COOLEY DOLOMITE MEMBER - Pmq(c) Intraclastic brecciated dololutite + laminated pyritic carbonate-mudstone shale (polymictic breccia). Proportion of dololutite increases relative to shale down unit. No discernible bedding **TEENA DOLOMITE - Pmp** Cycles of upwardly-fining dolomite, with pelletal dolarenite at base, grading to dololutite. Bands of ?K-rich mudstone near top. Stylolites lined with goethite common. Vugs filled with bitumen at 591m. Bedding dipping between 15-25 degrees Pmp **MITCHELL YARD DOLOMITE MEMBER - Pmei** Pmei Silty calcitic dololutite which appears massive as much of the primary textures have been overprinted. **MARA DOLOMITE MEMBER - Pmea** Pmea 600m Scale for ĬIIII

Magnetic Susceptibility

linegraph

606.2m EOH

Interbedded horizons of dololutite and dolarenite, with bands of dolorudite. Stylolites lined with goethite are common, and form along lithological boundaries. Overall dip of bedding is about 15 degrees.

SCALE - 1 : 2,500

Magnetic Susceptability

Linegraph - 1 mm/unit at 1:1000