

Project: **PHES STG 1** Hole commenced: **31 Jan 20** Completed: _____
Borehole location: **ROWALLAN** Supervised by: **LV** Checked by: _____
Drill model and mounting: **KL 800 Track Mounted** Fluid: **H₂O** Company: **TDS**
Barrel type and length: **HFA 3 4.1m barrel** Bearing: **Vertical** Slope: _____ Driller: **A. Park**

| Method/c-lift | Water | R.L depth (m) | Graphic log core loss | Rock descriptions: ROCK NAME, grain size and type, colour, texture (porphyritic, amorphous, glassy) and fabric (distinct/indistinct bedding, lamination, foliation, cleavage), inclusions or minor components, moisture content, durability | Weathering | Strength | Defect spacing (mm) | RQD % | Rock mass descriptions (vertical) and significant defect descriptions (horizontal): defect type, orientation relative to core axis, shape, roughness, coating, aperture or thickness and composition |
|---------------|-------|---------------|-----------------------|---|------------|----------|---------------------|-------|--|
| RR | | 261 | | BASAL CONGLOMERATE / SEDIMENTARY BRECCIA (Cont'd) | ↓ | | | 90 | 260.20, 260.60, 260.90, 261.00, 261.25, 261.30, 261.75, PARTINGS > 80degCA Undulating to irregular, rough, clean. Associated with carbonaceous laminae. |
| | | 262 | | | | | | | 262.30, 262.60, 262.80, 263.05, 263.40, 263.50, 263.85, 264.00, 264.30 PARTINGS, Variable to CA Irregular, very rough, clean Associated with breccia band or cobble boundary. |
| | | 263 | | | | | | 84 | |
| | | 264 | | | | | | | 265.20 JOINT 45degCA Und. Smooth, Clean |
| | | 265 | Q | 264.60 - QUARTZITE Mid grey color, granoblastic texture. Generally massive but primary sedimentary bedding preserved as mica rich bands. Contact between Tertiary Sed brnx and Proterozoic is 70degCA. | | | | | 265.55 JOINT 70degCA Und. Smooth, Clean |
| | | 266 | Q | | | | | 70 | 266.10, 266.20 JOINT 90degCA Planar, smooth, Coating of fine clay. |
| | | 267 | Q | incl 265.60 - 270.00. Darker grey alteration peripheral to linear, very narrow (<1mm) mica rich bands. Alteration also appears as 'cauliflower' like masses. | | | | | 266.75 JOINT. Conglomerate 45degCA. Undulating, smooth, clean |
| | | 268 | Q | | | | | | 266.90 JOINT. >80degCA Planar, smooth, clean. |
| | | 269 | Q | | | | | 76 | 267.10 JOINT. Conglomerate 45 to subvertical, Planar, smooth, clean |
| | | | | | | | | | 267.35, 267.45, 267.50, 267.70, 267.85, 268.50, 268.75, 268.80, 268.85, 269.70 JOINTS 80degCA. Undulating smooth, clean |
| | | | | | | | | | 269.20, 269.50, 269.90 JOINTS 45degCA. Planar, smooth, clean |
| | | | | | | | | | 268.50 - 268.70 JOINT. Subvertical Curved to undulating, smooth very finely shelled, conchiform veneer of pyrite. |

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| KEY Method SO sonic drilling AD auger drilling HFA hollow flight auger RR roller/tricone W _{size} washbore DC _{size} diamond drilling | Case-lift casing used barrel withdrawn 6 May 20 water level, date shown water inflow partial drilling water loss complete drilling water loss | Graphic log/ core loss core recovered (hatching indicates material) no core recovered (NCR) Grain size (mm) fine 0.06 to 0.2 medium 0.2 to 0.6 coarse 0.6 to 2 SED mainly <0.06 0.06 to 2 mainly >2 IG/META | Weathering RS Residual soil W { XW Extremely weathered HW Highly weathered MW Moderately weathered SW Slightly weathered Fr Fresh DW = distinctly weathered | Rock material strength (Is(50) in MPa) VL Very low [0.3 to 0.1] L Low [0.1 to 0.3] M Medium [0.3 to 1] H High [1 to 3] VH Very high [3 to 10] EH Extremely high [10+] x Point Load Test |
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