

UNZEN Scientific Drilling Project: Planning the Well for the Conduit Drilling

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Outline of Conduit Drilling (USDP-4, 4a)

Drilling site: New RS-3 point (north west of lava dome, altitude 840m)

Water supply: Water well and pipe line

Drilling rig: 8-1/2inch 2000m class rotary rig

USDP-4: Drilling depth 1750m, last section 6-1/4inch hole, last inclination 71.5 degree

USDP-4a: Drilling depth 1500-1750m, sidetrack and coring

Target USDP-4: Through conduit at sea level

USDP-4a: as above as possible

High temperature formation: TDS-cooling method

Coring method: Wire-line coring by coring machine installed rotary rig

Well name USDP-1: Flank-1 Drilling (SENBONGI)

USDP-2: Flank-2 Drilling (OHNOKOBA)

USDP-3: Pilot Well for Conduit Drilling (RS-3)

USDP-4: Conduit Drilling (Main Well)

USDP-4a: Conduit Drilling (Sidetrack Well)