

Borehole Information

Borehole Number:

105/25/K003/1A/H8

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL31/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.704839 , 27.882721

Location: Lerala

Start Drill: N/A

End Drill: N/A

Borehole Type: Exploration

Drilling Method: Core

Sample Type: Core

Depth of Surface Casing: N/A

Azimuth: Degrees

Hole Inclination: N/A

Collar Elevation: N/A

Borehole Water Strike: N/A

End of Hole (Depth): N/A

Log Formation:

No.	From (m)	To (m)	Log Formation
1.	0	1	Topsoil
2.	1	2	Topsoil with quartzite.
3.	3	12	60% pfg with first appearance of kimberlitic clay 40%.
4.	12	19	Kimberlite breccia with
5.	23	27	80% mafic Schist, 20% pfg.
6.	27	28	1% aphinitic, textureless kimberlite, some phlogopites.
7.	28	29	70% dark green, aphanitic kimberlite, clay balls? of kimberlite
8.	29	31	20% pfg + Quartzite.
9.	31	39	Kimberlite presence is often only as clay coatings to chips, presence of quartz - chlorite Schist gives logging problem especially with estimating % inclusions section in rich basement inclusions.
10.	39	41	30% blue kimberlite, phlog bearing not macrocrystic.
11.	41	43	100% quartz chlorite Schist.
12.	43	47	K clay coatings, qtz chl Schist, 70%.
13.	47	49	Blue kimb + qz chl Schist much k. clay coatings.
14.	49	50	Green amorphous Silcrete, quartzite, no k clay.

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15.	50	51	100% felsic gneiss + Quartzite.
16.	51	59	Chlorite Schist, felsic gneiss.
17.	59	65	Generally 100% chlorite Schist, felsic gneiss.
18.	65	66	1% phlogopite kimberlite, generally 99% chlorite Schist, felsic gneiss.
19.	66	69	Felsic gneiss 40%, chl Schist + Amphibolite 60%.
20.	69	77	Kimberlite recognisable as brownish weathered, phlog bearing chips balls g k.clay 80%, 20% fg, chls.
21.	77	79	5% kimb Fe oxides in chl Schists, felsication? Seen in some chips.
22.	79	81	20% kimb present as green, decomposed clay chips.
23.	81	85	20% kimberlite (as clay chips) incl of chl sch + Amphibolite.
24.	85	87	5% kimberlite (as clay chips) incl of chl sch + Amphibolite.
25.	87	89	30% kimberlite (as clay chips) incl of chl sch + Amphibolite.
26.	89	90	20% kimberlite (as clay chips) incl of chl sch + Amphibolite.
27.	90	93	99% kimberlite (as clay chips) incl of chl sch + Amphibolite.
28.	93	111	93m to EOH at 111m generally >90% inclusions of blue chlorite Schist and Amphibolite kimberlite occurs as clay chips as discussed earlier.

NB: For any enquiries, application, acquisition or verifications related to Water Boreholes, kindly contact the Department of Water and Sanitation for assistance.

