

Borehole Information

Borehole Number:

105/25/K003/1A/H5

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL31/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.7037 , 27.883476

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 quartz and febric basement rubble.
3.	2	4	Basement rubble, silicified kimberlite (1%), clay 1%.
4.	4	5	Basement rubble no kimberlite evident.
5.	5	9	50% green kimberlitic clay, 50% basement rubble, no kimberlite clay, dominant quartzite rubble.
6.	9	15	Quartzite, Amphiboliteibolite, pink feldspar gneiss rubble set in a gritty matrix.
7.	15	18	Basement rich rubble but green clay (kimberlitic) coats grains.
8.	18	20	90% kimberlitic clay, 10% quartzite.
9.	20	22	20% kimberlitic clay, 80% blue Schist, pink gneiss and quartzite.
10.	22	24	70% inclusions set in green kimberlitic clay.
11.	24	26	90% inclusions.
12.	26	28	30% inclusions in kimberlite clay.
13.	28	30	Blue clay with numerous phlogopites.
14.	30	34	Blue kimberlite, pitted where inclusions have become free. Kimb 60%, inclusions 40%, no clay.
15.	34	45	Blue kimberlite with varying inclusions of 30% - 70% phlogopites visible.

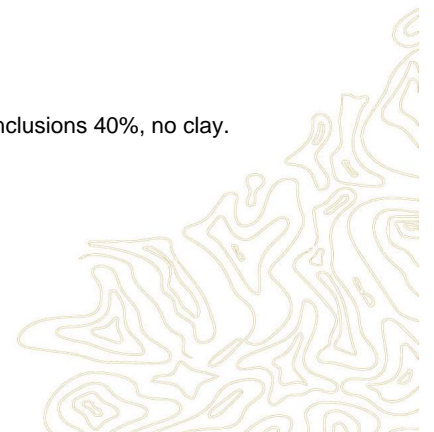
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16.	45	65	Varying proportions of Amphibolitebolite, quartz - feldspathic gneiss and quartzite. Propably represents xenolithic material as many chips show blue clay coatings.
17.	65	81	3% kimberlite, 97% Amphibolitebolite, felsite gneiss.
18.	81	82	50% blue kimberlite, 30% felsite, 20% Amphibolitebolite.
19.	82	84	20% kimberlite, 80% inclusions.
20.	84	85	50% Amphibolitebolite, 50% kimberlite.
21.	85	87	70% kimberlite, numerous phlogopites, 30% quartzite.
22.	87	90	98% kimberlite blue aphanitic and uniform with no vissible olivine macrocrysts, some phlogopites up to 5mm large.
23.	90	92	99% kimberlite.
24.	92	95	80% kimberlite, 20% inclusions.
25.	95	101	Kimberlite to 102m varies from 90% to 30% generally becoming less abundant down hole.
26.	101	105	90% Amphibolitebolite 10% quartzite.
27.	105	107	Blue clay coating to chips.
28.	107	108	Serpentine visible.
29.	108	110	Lithology to bottom of the seems to be a dominant quartzite - feldspartic gneiss although some 2% g blue kimberlite at 110m is evedent.

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

