

Borehole Information

Borehole Number:

105/12/X015/H1

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL51/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -20.3541 , 24.09553

Location: Tshatshamo

Start Drill: 1900-01-02

End Drill: 1900-01-02

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): 502 Metres

Log Formation:

No.	From (m)	To (m)	Log Formation
1.	0	2	U Kalahari - superficial detritus (Sand, lithic fragments).
2.	2	11	Lake sediments - I) Sandstone, fine grained, grey, poorly lithified, with nodular calcrete and gastropod remains. Magnetic susceptibility = 20dkx-6
3.	3	11	Lake sediments I) Sandstones fine grained grey , poorly lithified , with nodular calcretes and gastropod remains . Magnetic susceptibility = 20dkx010.
4.	11	23	ii) Sandstone, light green, fine to medium grained, texturally mature. Poorly lithified, intercalated with green mudstone. Mag suscept = 20dkx-6.
5.	23	34	iii) green mudstone, intercalated with playa Silcrete towards the bottom . Mag suscept = 20dkx-6.
6.	34	43	iv) Gravel horizon - angular to surrounded fragments of playa Silcrete hardpan calcrete, wthrd Sandstone. Mag suscept 20dkx 10-6
7.	43	79	v) Green siltstone with abundant gypsum euhedra, intercalated in parts with playa Silcrete and hardpan calcrete. Mag suscept 10-20dkx10-6 (green mudstone).
8.	79	113	vi) Carbonaceous Shale (intercalated with green siltstone), green mudstone.
9.	113	126	vii) Green siltstone with gypsum intercalated with carbonaceous Shale. (20dkx10-6)
10.	126	131	ix) Carbonaceous Shale. Mag suscept = 10 dkx10-6.
11.	126	202	Gravel group - I) Sandstone , fine to medium grained , wthrd , mineralogically immature, well sorted. Mag. Suscept= 20dkx10 -6.

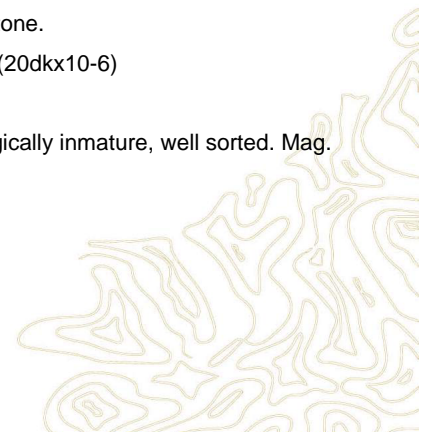
Physical Address: Plot 11566, Khama 1 Avenue, Lobatse, Botswana

Postal Address: Private Bag 0014, Lobatse, Botswana

Telephone: +267 533 0327 / +267 533 0428 **Fax:** +267 533 4295

Email: info@bgi.org.bw **Website:** www.bgi.org.bw

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12.	131	133	x) polymictic pebble horizon.
13.	133	151	xi) Mudstone, green (glauconitic) hosting gypsum euhedra and pyrite chams. Mag suscept = 10-20dk x10-6.
14.	151	197	Description too long to fit in SQL. Please refer to file.
15.	197	202	Gravel group - I) Sandstone, fine to medium grained, wthrd, mineralogically immature, well sorted. Mag suscept = 20dkx10-6.
16.	202	225	Description too long to fit in SQL. Please refer to file.
17.	225	245	iii) Shale maroon coloured finely laminated, micaceous in parts. Mag suscept 20dkx10-6.
18.	245	270	iv) Sandstone (grey wacke) (description as at 203m) (Shale as at 226).
19.	245	292	iv) Sandstone (grey wacke) (description as at 203m). (Shale as at 226m). (Sandstone/greywacke description as at 203m). (Shale as described for 226m).
20.	292	333	vi) Intercalated greywacke and Shale. (greywacke, as at 271m), (Shale, as at 226m), (greywacke, as at 271m), (Shale, as at 226m).
21.	333	353	viii) Protoquartzite - light pink to grey, medium grained, well sorted. Mineralogically mature. Mag suscept = 20 dkx10-6.
22.	353	365	ix) Greywacke - light red, fine to medium grained, poorly sorted (ie texturally immature) micaceous , with occasional Shale intercalations. Mag suscept = 10 dkx10-6.
23.	365	390	x) Arkose - grey to brown, coarse grained, mineralogically immature (quartz, plogroclase, mica, opaque minerals). Mag suscept = 10-20dkx10-6.
24.	390	410	xi) Arkose - grey to light green , fine to coarse grained , poorly sorted (ie texturally less mature than the above), mineralogically immature (quartz, plagroclase, mica, opaque minerals) mag suscept = 20 dkx10-6
25.	410	420	xii) Greywacke, light red, fine to medium grained, texturally immature. Micaceous with mica Shale intercalctions. (similar to the lithology described at 354m).
26.	420	424	xiii) Arkose, grey to green, fine to coarse grained, texturally and mineralogically immature (similar to lithology described at 391m).
27.	424	429	xiv) Greywacke, light red, fine to medium grained (description as for 411m).
28.	429	457	xv) Arkose, grey green, fine to coarse grained (description as for 391M). Becomes brown in colour and medium grained with depth. Mag suscept = 20dkx10-6.
29.	457	460	xvi) siltstone (maroon, micaceous). [20dkx10-6]
30.	460	469	xvii) Arkose, grey to green, fine to medium grained (I.e differs from @ 391m and 430m). Texturally and mineralogically immature (ie poorly sorted quartz, plogroclase, mica, opaque minerals) mag suscept = 20 dkx 10-6.
31.	469	472	xviii) Greywacke- maroon, fine grained well sorted, micaceous) similar to lithology described at 203m.
32.	472	502	xix) Arkose, grey to green, fine to medium grained, texturally and mineralogically immature (ie as at 461m). Mag suscept = 20 dkx 10-6.

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

