

Borehole Information

Borehole Number:

105/21/X013/H1

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL78/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.923787 , 21.650934

Location: Ghanzi

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	8	Loose Kalahari sand.
2.	0	4	Poor sample recovery.
3.	4	6	6m- Semi consolidated calcareous Sands + clasts of qtz + very few clasts of metadiorite. (Poor sample recovery).
4.	6	8	8m- Cream coloured Sandy calcrete.
5.	8	10	9m- Sandy calcrete cream/pink- evidence of bioturbation trace fossils- burrows.
6.	10	12	12m- Same as above- coarsening downhole- good cellular texture developed.
7.	12	14	Same as above. Minor colour changes cream/buff.
8.	14	18	16m- Cream coloured Sandy calcrete- vuggy in places- trace fossils still evident.
9.	18	20	20m- Same as above- contains clasts of finer grained calcite + grey laminaated siltstone.
10.	20	21	21m- Massive calcrete fine + coarse grained.
11.	21	22	22m- Silcrete horizon- brown/red/green Cherty material + fine grained calcrete.
12.	22	24	24m Speckled Silcrete- limonitic staining evident + fine grained calcrete.
13.	24	26	26m- Fine grained silty calcrete + speckled Silcrete.
14.	26	28	28m Fine grained silty calcrete (+ Silcrete).

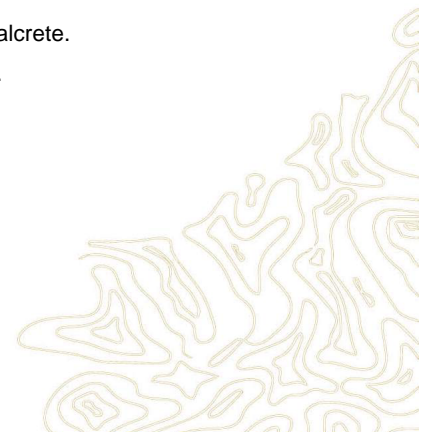
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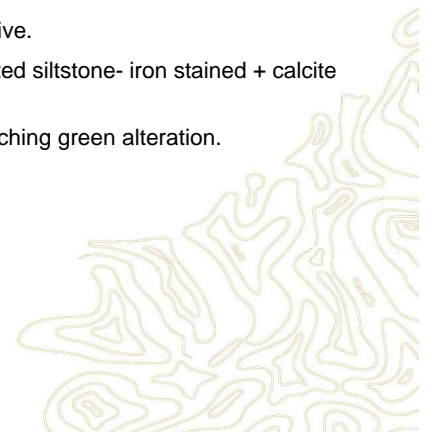
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15.	28	30	30m- Coarse grained calcite (+ Silcrete).
16.	30	32	32m- Sandy calcrite (+Silcrete)- contamination?
17.	32	34	34m- Cream/pink green stained Sandy calcrite- speckled with black + red flakes.
18.	34	38	36m- Cream/pink saccharoidal calcrite.
19.	38	40	40m- Buff/pink/cream calcrite- saccharoidal + Sandy vuggy calcite crystals.
20.	40	42	42m- More massive pink/cream calc Sandstone + Sandy calcrite.
21.	42	46	44m- Pink calc Sandstone + saccharoidal pink/white calcrite.
22.	46	48	48m- Sandy + saccharoidal calcrite + pink calc Sandstone.
23.	48	50	50m- Pink calc Sandstone (saccharoidal calcrite).
24.	50	58	Becoming paler pink and increasing amounts of sacc calcrite.
25.	58	60	60m Pale pink/white calc Sandstone + sacc calcrite.
26.	60	62	62m- Pale pink calc Sandstone + sacc calcrite.
27.	62	63	63m- More massive Sandstone, calc Sandstone, fine/coarse grained calcrite, some limonitic staining + Silcrete.
28.	63	66	64m- Massive pink calc Sandstone + finer grained calcrite + Silcrete.
29.	66	70	68m- Pink calc Sandstone + finer grained calcrite + Silcrete.
30.	70	72	72m- Massive pink calcareous Sandstone.
31.	72	84	Minor colour + grain size variations.
32.	84	85	85m- Massive pink calcareous Sandstone- coarse grained.
33.	85	90	86m- Same as above (+ f g calcrite + Silcrete in small amounts).
34.	90	92	Massive pale pink calcareous Sandstone. Med/coarse grained.
35.	92	102	Homogenous pale pink/cream/buff calc Sandstone- minor variations in grain size + colour.
36.	102	104	104 Pale cream/pink calcareous Sandstone. Med grained.
37.	104	120	Minor colour + grain size variations.
38.	120	132	Same as above. Homogenous pale/dark pink calc Sandstone (grain size vary).
39.	132	135	135m- Pale pink massive calc Sandstone mottled with dark pink patches.
40.	135	136	136m- Pale pink massive calc Sandstone, med grained.
41.	136	138	138m- Salmon pink/orange calc Sandstone, fine grained.
42.	138	142	140m- Salmon pink/orange calc Sandstone + small clasts of Conglomerate av grain size(2-3mm).
43.	142	148	144m Massive cream/buff calc Sandstone coarse grained, some limonitic staining.
44.	148	150	150 Mottled (dark pink/cream/buff) massive calc Sandstone.
45.	150	164	Massive calcareous Sandstone. Variation in grain size fine- coarse colour variation- mottled buff/pink- buff- dark brown/green - cream/pale green.
46.	164	166	166 Very fine grained Sandstone, massive + calcareous- red/pink iron staining evident + laminated siltstone- buff/pink.
47.	166	168	168 Dark pink/buff coarse grained calc Sandstone- calcite veining.
48.	168	170	170 Coarse- med grained pale pink/buff Sandstone- calcareous + massive.
49.	170	171	171m Coarse grits- pale/dark pink calcareous + dark grey/green laminated siltstone- iron stained + calcite veining.
50.	171	174	172 Dark green/black med/coarse grained dolerite- calcite veining + patching green alteration.
51.	174	180	176 Med grained dolerite.





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52.	180	182	182m Med grained dolerite- some infilled vesicles green (epidote/calcite?).
53.	182	192	Homogenous med/coarse grained dolerite.
54.	192	193	193 Med/coarse grained dolerite.

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

