

Borehole Information

Borehole Number:

105/21/X011

Prospecting Company: De Beers Holdings Botswana

Prospecting License No.: PL78/88

Coordinates Type: WGS 84

Coordinates Format: Decimal Degrees

Coordinates: -22.944341 , 21.631488

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	4	3m- Semi consolidated orange/yellow calcareous Sands.
2.	4	6	5m- Sandy calcrete- celimiar structure.
3.	6	12	7m- Becomes light buff- red-coarse sub rounded, Sand grains within 8m- black Sands (?).
4.	12	14	14m- Light grey calcareous silts, very fine laminations.
5.	14	18	15m- Red calcareous Sands.
6.	18	20	20m- Calcareous silts and Sands.
7.	20	22	22m- Becoming red and grey.
8.	22	26	23m- Some very coarse well rounded quartz grains.
9.	26	28	27m- Silty calcrete red/orange/brown limonitic staining, some Silcrete- dark grey- (flint like).
10.	28	30	30m- Calcareous Sands- mottled orange/red/brown. Fine- medium grained.
11.	30	34	31m- Silty calcareous Sands- sugary texture white. Becoming pink/light red. Vuggy calcite crystals.
12.	34	38	36m- Pale grey/off white homogenous Sandy calcrete occasionally speckled (black/red flecks).
13.	38	44	40m- As above- mottled pink- becoming a calcretised Sand rather than Sandy calcrete. Coarse grained.
14.	44	45	45m- Very coarse calcareous grits- well sorted.
15.	45	52	46m- Very Sandy calcrete, off white, pink, brown with minor Silcrettes- (calcretised Sandstone?).

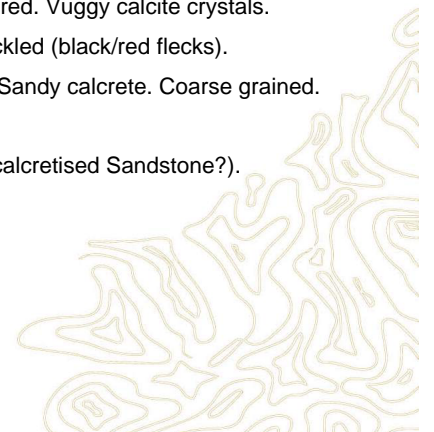
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16.	52	60	Same as above- many minor colour variations.
17.	60	64	Calcareous fine to coarse Sandstone with minor Silcrete persistent throughout.
18.	64	78	Colour variations only.
19.	78	80	80m- Dark pink/red calcareous Sandstone.
20.	80	88	81m- Orange/pink calcareous Sandstone.
21.	88	90	90m- Light grey mottled pink calc Sandstone.
22.	90	98	Light pink calcareous fine grained Sandstone.
23.	98	100	100m- Off white very light pink med grained calc Sandstone.
24.	100	120	Colour and grain size variations but otherwise very homogenous.
25.	120	138	Homogenous calcareous Sandstone- colour varies frequently, pink/grey/off white, cream.
26.	138	146	139m- Light grey mottled to dark grey/black coarse- medium grained calcareous Sandstone.
27.	146	148	148m- Very coarse/gritty calc Sandstone. Limonitic red/orange/brown wthrd staining.
28.	148	150	150m- Coarse pink- light brown calc Sandstone.
29.	150	155	151m- Very gritty Sandstone/Conglomerate- pink /opaque qtz grains.
30.	155	157	156m- Light grey/brown finely laminated siltstone.
31.	157	159	158m- Dark red/green/grey iron stained wthrd dolerite. Thin veining- possibly qtz- highly magnetic.
32.	159	161	160m- Light brown/grey silty mudstone + wthrd dolerite.
33.	161	165	162m- Coarsening to muddy siltstone.
34.	165	167	167m- Pink/red/brown highly wthrd dolerite fragments.
35.	167	171	168m- Laminated siltstone.
36.	171	173	170m- Light-med grey very fine laminated mudstone - but with a peculiar mottled/speckled rock:- dark- med green with light green spots- possibly metamorphosed mudstone adjacent to dolomite sill (hornfels).
37.	173	178	174m- Light green laminated mudstone.
38.	178	180	180m- Light grey (occ slightly pink) mudstone- many tiny black flecks.
39.	180	184	181m- Medium brown/grey mudstone.
40.	184	188	185m- Becomes pink- light green.
41.	188	190	189m- Silty laminated light grey/green/pink mudstone.
42.	190	192	191m- Light grey to pink brown siltstone (some quartz + pyrite veins) laminated siltstone.
43.	192	193	193m- wthrd red/brown very coarse gritty Sandstone.
44.	193	195	194m- Light grey/brown laminated siltstone- speckled with tiny black flecks.
45.	195	196	196m- As above with fractured/veining poss qtz/calcite?
46.	196	202	197m- Highly wthrd red/brown- dark grey fine grained dolerite.
47.	202	210	Becoming coarser and progressively less wthrd.
48.	210	225	Crystalline medium grained dark green to black fresh dolerite.

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

