

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). |

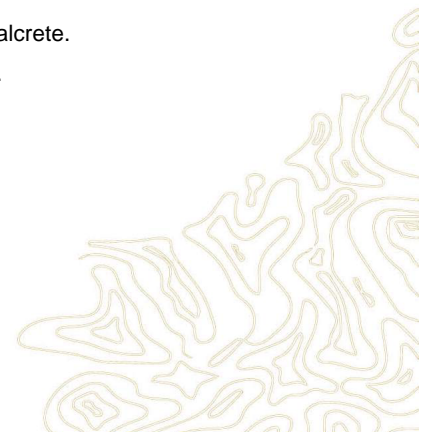
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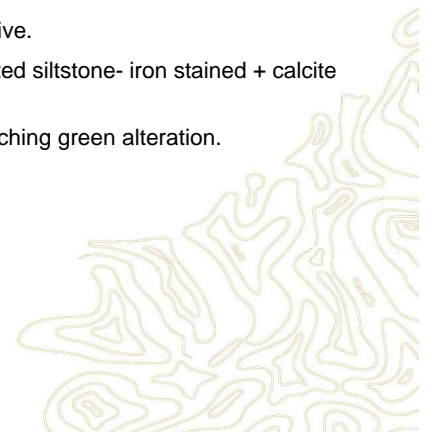
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Borehole Information

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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.

