



log# 115349

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| Barrick Goldrush                 |        |            |          |       | Sonic Drill Core Log         |        |         | PVSBH-13   |                        |
|----------------------------------|--------|------------|----------|-------|------------------------------|--------|---------|--|------------------------|
| Project # 1965-4A                |        |            |          |       |                              |        |         | Sheet 1 of 1   |                        |
| Hole no.: PVSBH-13               |        |            |          |       | Inclination: Vertical        |        |         | Notes:<br>1. Driller - Dustin, helpers - Moses, Chris<br>2. Logged by WMS from 0 to 42 feet<br>3. Logged by SAM from 42 to 300 feet<br>4. Water Table encountered at 105 feet bgs<br>5. Water level of 117.5 feet bgs with a TD of 300 feet and the well idle for 20 hours.  |                        |
| Client: Barrick Goldrush         |        |            |          |       | Azimuth: na                  |        |         |  |                        |
| Drilling Company: Boart Longyear |        |            |          |       | Easting: 548 857             |        |         |  |                        |
| Drilling Method: Rotasonic       |        |            |          |       | Northing: 4 441 957          |        |         |  |                        |
| Date Started: 5/5/12             |        |            |          |       | Total Depth: 300 feet        |        |         |  |                        |
| Date Finished: 5/17/12           |        |            |          |       |                              |        |         |  |                        |
| DEPTH                            |        | RUN LENGTH | RECOVERY |       | Grain Size (Visual Estimate) |        |         | Graphic Log  | LITHOLOGIC DESCRIPTION |
| FROM                             | TO     |            | (ft)     | (%)   | % Gravel                     | % Sand | % Fines |  |                        |
| (ft)                             | (ft)   | (ft)       | (ft)     | (%)   |                              |        |         |  |                        |
| 0.0                              | 10.00  | 10.00      | 10.00    | 100.0 | 5                            | 80     | 15      | Alluvial material, 0 - 57 ft depth - Poorly consolidated alluvial fan material. It generally consists of brown, poorly-sorted, fine to coarse, angular to subangular sand, fine to medium, angular and subangular gravel and cobbles, and the fine fraction consisting of less clay than silt. Proportions of gravel, sand and fines (silt and clay) vary widely, but the sand fraction predominates, at about 60%, the gravel fraction varies from 20% to 25%, and the total fine fraction varies from about 15% to 20%. The clay fraction is slightly to moderately plastic. Lithologies of sand and gravel reflect lithologies of the nearby upgradient source rock. Interlayering of red brown silty sandy clay with gravel and layers of grey sandy gravel.   |                        |
| 10.0                             | 20.00  | 10.00      | 10.00    | 100.0 | 5                            | 80     | 15      |  |                        |
| 20.0                             | 30.00  | 10.00      | 10.00    | 10.0  | 5                            | 80     | 15      |  |                        |
| 30.0                             | 42.00  | 12.00      | 12.00    | 10.0  | 5                            | 75     | 20      |  |                        |
| 42.0                             | 47.00  | 5.00       | 5.00     | 100.0 | 10                           | 75     | 15      |  |                        |
| 47.0                             | 57.00  | 10.00      | 10.00    | 100.0 | 5                            | 65     | 30      |  |                        |
| 57.0                             | 67.00  | 10.00      | 10.00    | 100.0 | 5                            | 60     | 35      | Alluvial fan debris, 57 to 300ft. depth - Poorly-to-moderately consolidated, poorly-sorted sand, gravel, silt and clay, with local caliche cementation. Silt, clay and sand vary in proportions, with the sand fraction usually predominating, ranging from 35% to 60%, and consisting of fine to coarse, angular to subangular grains of varying lithology. The gravel fraction varies from 25% to 35% and consists of angular to rounded, fine to coarse gravel and small cobbles of varying lithology. The fine fraction consists of silt and clay, varying from 20% to 30%, and locally up to 50%, of non-plastic to moderate plasticity, (judged by ability to roll a long, small-diameter cylinder of the material by hand, and the tendency of the material to maintain a cylindrical shape when extruded from the core barrel). Color varies from medium brown, but frequently locally yellowish and reddish brown, indicating iron staining. Lithologies of sand and gravel reflect lithologies of the nearby upgradient source rock. |                        |
| 67.0                             | 77.00  | 10.00      | 10.00    | 100.0 | 5                            | 55     | 40      |  |                        |
| 77.0                             | 87.00  | 10.00      | 10.00    | 100.0 | 10                           | 55     | 35      |  |                        |
| 87.0                             | 97.00  | 10.00      | 10.00    | 100.0 | 15                           | 60     | 25      |  |                        |
| 97.0                             | 100.00 | 3.00       | 3.00     | 100.0 | 15                           | 60     | 25      |  |                        |
| 100.0                            | 106.00 | 6.00       | 6.00     | 100.0 | 5                            | 55     | 40      |  |                        |
| 106.0                            | 117.00 | 11.00      | 11.00    | 100.0 | 5                            | 50     | 45      | Red brown silty sand with clay and some gravel.<br><br>Increased sand content<br><br>Increased gravel content, some reddish staining around 132 feet   |                        |
| 117.0                            | 127.00 | 10.00      | 10.00    | 100.0 | 5                            | 60     | 35      |  |                        |
| 127.0                            | 147.00 | 20.00      | 20.00    | 100.0 | 10                           | 55     | 35      |  |                        |
| 147.0                            | 157.00 | 10.00      | 10.00    | 100.0 | 10                           | 55     | 35      |  |                        |
| 157.0                            | 177.00 | 20.00      | 20.00    | 100.0 | 5                            | 65     | 30      | Reddish brown fine to medium sand with silt and some clay and gravel. Less red in color from 173 to 177 feet<br><br>Greenish brown with increased sand and gravel between 191 and 198 feet<br><br>Reddish brown clayey silt with sand between 213 and 214 feet   |                        |
| 177.0                            | 187.00 | 10.00      | 10.00    | 100.0 | 5                            | 65     | 30      |  |                        |
| 187.0                            | 203.00 | 16.00      | 16.00    | 100.0 | 10                           | 65     | 25      |  |                        |
| 203.0                            | 217.00 | 14.00      | 14.00    | 100.0 | 5                            | 55     | 40      |  |                        |
| 217.0                            | 237.00 | 20.00      | 20.00    | 100.0 | 25                           | 60     | 15      | Greenish brown silty gravelly sand<br><br>Red brown gravelly silty sand. Between 245 feet and 251 feet is a red brown silty clay and sand.   |                        |
| 237.0                            | 257.00 | 20.00      | 20.00    | 100.0 | 20                           | 55     | 25      |  |                        |
| 257.0                            | 273.00 | 16.00      | 16.00    | 100.0 | 5                            | 55     | 40      |  |                        |
| 273.0                            | 287.00 | 14.00      | 14.00    | 100.0 | 15                           | 50     | 35      | Reddish brown silty sand with clay<br><br>Grey green stiff clay from 273 to 275 feet, sand with silt and gravel from 282 to 283 feet, sandy gravel from 286 to 287 feet  |                        |
| 287.0                            | 300.00 | 13.00      | 13.00    | 100.0 | 15                           | 50     | 35      |  |                        |

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