



Log# 117156



GRAPHIC LOG OF BOREHOLE NPZ-A5

PROJECT Jeritt Canyon, TSF1 Piezometer Installation

PROJECT NO. 174700.180

TOTAL DEPTH: 183'

LOGGED BY Pablo Cortegoso

GROUND CONDITION

COORDINATES OF LOCATION

DATE 7/15/2011-7/16/2011

Dry Tailings

EQUIPMENT Prosonic, 7" Core Barrel

ELEVATION

DRILLER Boart Longyear Drilling

| DEPTH (FEET) | SAMPLE #       | SAMPLE TYPE | GRAPHIC LOG | USCS SOIL CLASS | WELL COMPLETION | DESCRIPTION OF MATERIAL  |
|--------------|----------------|-------------|-------------|-----------------|-----------------|--|
| 0            |                |             |             | CL              |                 | Light brown clay; saturated; medium plasticity   |
| 5            |                |             |             |                 |                 |  |
| 10           | NPZ A5 A01-A05 | CORE        |             |                 |                 | Low moisture content; low plasticity   |
| 15           |                |             |             |                 |                 |  |
| 20           |                |             |             | ML              |                 | Dark brown silt; low moisture content; low plasticity  |
| 25           |                |             |             | CL              |                 | Light brown silty clay; highly moisture; medium plasticity   |
| 30           | NPZ A5 A06-A13 | CORE        |             |                 |                 | Color turning into brown; decreasing moisture content  |
| 35           |                |             |             |                 |                 |  |
| 40           |                |             |             |                 |                 | Color turning into brown/orange; increasing moisture content   |
| 45           | NPZ A5 A14-A18 | CORE        |             |                 |                 |  |
| 50           |                |             |             |                 |                 |  |
| 55           |                |             |             |                 |                 | With some silt; wet  |
| 60           |                |             |             |                 |                 |  |
| 65           | NPZ A5 A19-A25 | CORE        |             |                 |                 | High moisture content; low plasticity  |
| 70           |                |             |             | SP              |                 | Sand; medium moist; with pebbles; tailings / alluvium interface @ ~ 68' bgs<br>Medium wet; with angular rocks less than 1" diameter<br>Medium moist; with larger rocks less than 2" diameter |
| 75           |                |             |             |                 |                 | Wet; coarse material larger than 2" diameter; trace of smaller rocks as well   |
| 80           | NPZ A5 A26-A35 | CORE        |             |                 |                 |  |
| 85           |                |             |             | CL/SP           |                 | Mix of clay and sand with large gravel about 1-2"; medium moist  |
| 90           |                |             |             | CL              |                 | Light brown sandy clay; medium moist with small pebbles<br>With gravel about 1-2"  |
| 95           | NPZ A5 A36-A40 | CORE        |             | SP              |                 | Sand; medium moist; with small coarse material less than 1"<br>Color turning into light brown; with large angular gravel up to 2"<br>With core material; large angular gravel up to 2"       |
| 100          |                |             |             |                 |                 |  |

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|--------------|-------------------|-------------|-------------|-----------------|-----------------|--|
| 100          |                   |             |             | ML              |                 | Silt; medium moisture; medium plasticity   |
| 105          |                   |             |             |                 |                 |  |
| 110          | NPZ A5<br>A41-A50 | CORE        |             | SM              |                 | Silty sand; medium moisture; very small pebbles  |
| 115          |                   |             |             |                 |                 |  |
| 120          |                   |             |             | CL              |                 | Caramel silty clay; wet; high plasticity   |
| 125          |                   |             |             | SP              |                 | Sand; muddy; with large angular gravel up to 2"  |
| 130          | NPZ A5<br>A50-A60 | CORE        |             | CL              |                 | Silty clay with gravel about 1/2"  |
| 135          |                   |             |             | GP              |                 | Gravel about 1/2"; mixed with aggregate sand; wet  |
| 140          |                   |             |             |                 |                 | Gravel about 1/2 - 1"; medium moisture<br>Gravel up to 2"; mixed with clay; wet<br>Medium moist; muddy |
| 145          |                   |             |             |                 |                 | Medium size gravel about 1/2 - 1"; medium moist  |
| 150          | NPZ A5<br>A61-A69 | CORE        |             | CL              |                 | Silty clay; with some small gravel   |
| 155          |                   |             |             | SM              |                 | Silty sand with very small rocks in the mix; medium moist<br>With small gravel; low moisture           |
| 160          |                   |             |             | GP              |                 | Gravel about 1/2 - 1"; very dense; high moisture content   |
| 165          |                   |             |             | MH              |                 | Silt; high plasticity; medium moisture; very small gravel in the mix                                   |
| 170          | NPZ A5<br>A70-A74 | CORE        |             | SP              |                 | Sand; moderately moist; with angular gravel up to 2"<br><br>No gravel presence                         |
| 175          |                   |             |             |                 |                 | Highly moist; with very dense small gravel   |
| 180          |                   |             |             |                 |                 |  |
| 185          |                   |             |             |                 |                 |  |
| 190          |                   |             |             |                 |                 |  |
| 195          |                   |             |             |                 |                 |  |
| 200          |                   |             |             |                 |                 |  |