

Information Sheet No. 20

Dear Shareholder,

Information Sheet 20 is the latest in a series designed to keep you up-to-date with developments in Catalina Resources PLC, appraise you of results achieved recently and inform you of our plans for future work. It will be added to the Catalina website www.catalinaresourcesplc.co.uk in the near future.

The Toculla Project

Argali Geofisica Chile E.I.R.L. (*Argali*) has completed a reconnaissance induced polarisation (IP) survey at Catalina's Toculla Project in Chile, approximately 150 km northeast of Iquique in Region I. The primary objective of the geophysical survey was to help delineate deep zones of possible copper porphyry mineralisation and/or epithermal gold mineralisation and to provide data to assist in the mapping of various geological structures, zones of mineral alteration and differing lithologies.

Data were acquired with a pole-dipole array and a dipole spacing of 150 m expanded through eight separations (n= 1 to 8). Five lines totalling 17.4 km were surveyed on a line spacing varying from 500 to 1,000 m. These covered the main target areas delineated during previous exploration - Silica Ridge, the Breccia, Trench Hill, the Pampa area and the two HS Epithermal targets – see Figure 1 below.

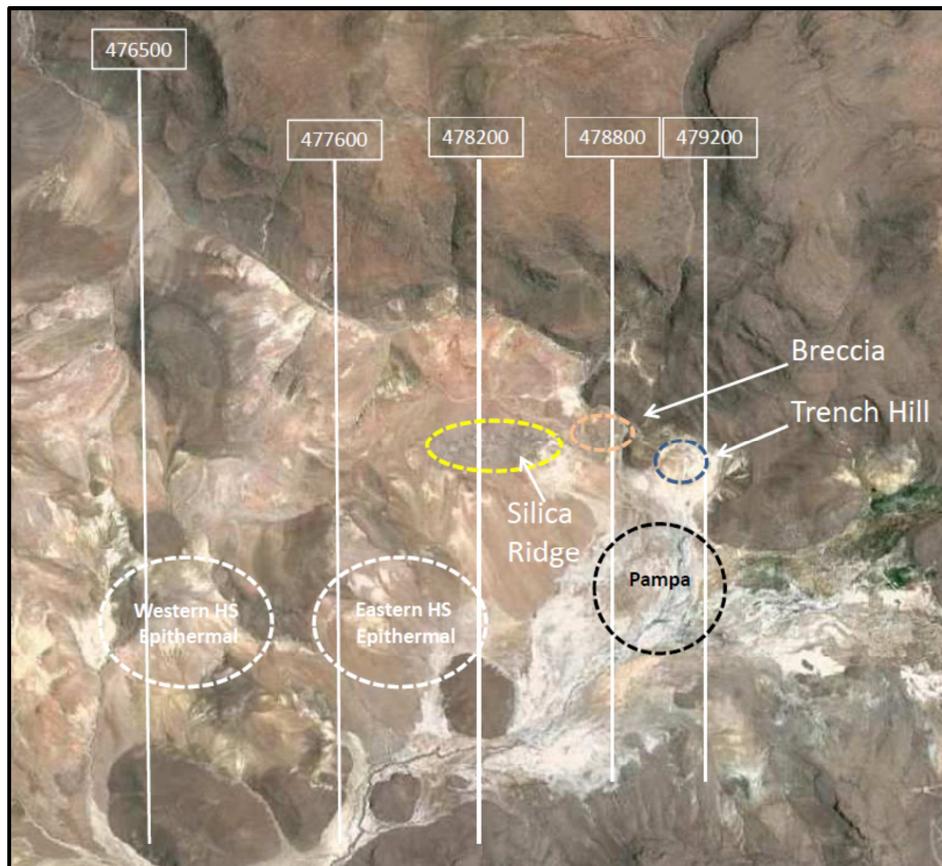


Fig. 1 Exploration targets and geophysical survey lines at Toculla

Silica Ridge is a prominent ridge comprising a central zone with massive flood silica (opaline in places) flanked by a number of sub-parallel structures.

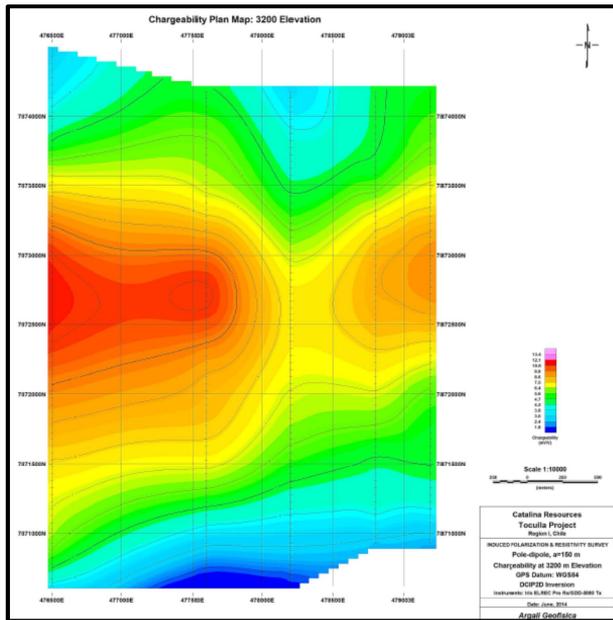


Fig. 2 Chargeability at 3,200 m elevation

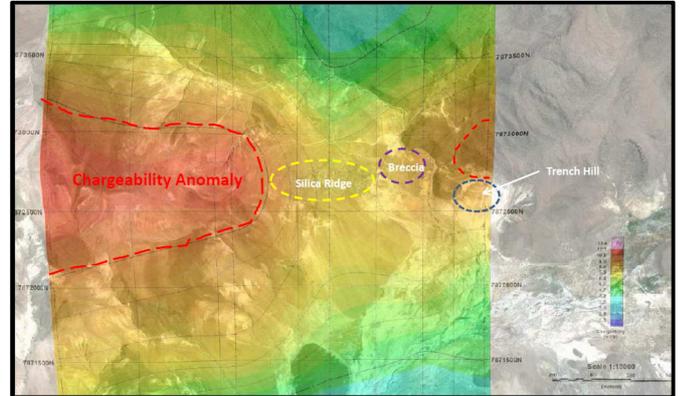


Fig. 3 Chargeability data superimposed on the Google Earth image

The chargeability data from the IP survey outline a deep, weakly-chargeable, bimodal zone striking ENE beneath Silica Ridge, coincident with a weakly-resistive zone at depth. Figures 2 and 3 indicate that along the strike of Silica Ridge there is an inverse relationship between chargeability and silicification at surface. The lower chargeabilities underlie the areas of strongest silicification.

A possible explanation is that the silicification is related to a younger event which has destroyed or replaced older mineralisation reflected in the chargeability highs. The significance of this observation is that the majority of the previous drilling at Toculla on Silica Ridge was concentrated in the area with the greater silicification and lower chargeabilities. Consequently, the areas with the more anomalous chargeability remain untested at depth. More promising ground may lie to the west and east where the chargeability anomaly is more strongly developed.

It is not yet known why the chargeability widens to the west where it remains open. Hydrothermal alteration appears to extend at least 2 or 3 km west of the IP grid. Consequently, it is possible that the chargeability anomaly also extends a significant distance to the west. Additional IP lines are required to determine its full extent

A second shallow, wide, comparatively high-amplitude (8-10 mV/V) chargeability anomaly occurs on the south end of the western Line 475600E in the south west of the survey area. This anomaly is associated with relatively high resistivities seen elsewhere to be the response of younger post-alteration rocks; however, such rocks do not appear to be present at this location. Consequently, this anomaly appears to be produced

by combination of lithology and/or alteration that is not observed on the surface elsewhere within the IP grid.

As this second anomaly also coincides with reports of anomalous Mo geochemistry, further fieldwork is planned for October 2014 to help determine its origin. The resistivities and chargeabilities associated with this zone are similar to the deep resistive-chargeable zones identified in the main anomaly under Silica Ridge. Consequently, as is a possibility that both anomalous zones may be produced by similar lithology and alteration further exploration is required.

The Jiguata Project

No further fieldwork has been completed at Jiguata since the IP survey reported in Information Sheet 19 in June 2014. The results of the IP survey have been examined closely and additional fieldwork is planned for October – to coincide with optimum weather conditions.

Discussions have commenced with various companies with a view to finding the finance required for further exploration. A number of approaches are being considered.

If you want to know more about either of these topics, or if you have any questions, please call me or send an email to psb@catalinaresourcesplc.co.uk.

Peter Bridges

**Managing Director,
Catalina Resources PLC**

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