

## Information Sheet No. 16

Dear Shareholder,

Information Sheet 16 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](http://www.catalinaresourcesplc.co.uk) in the near future.

As mentioned in Information Sheet 15, Catalina acquired two new exploration areas in northern Chile earlier this year, Jiguata and Toculla, both of which are prospective for gold. Both are owned 100% by Catalina.

Catalina is pleased to announce that it has completed an Option-to-Purchase Agreement with Mariana Resources Limited, an AIM and TSX quoted exploration and development company focussed on Argentina and Chile.

Mariana made the following announcement earlier today, 19 July 2011, with regard to the Jiguata Project.

*Mariana Resources Ltd*

*AIM and PLUS: MARL*

*TSX: MRY*

*Sector: Mining*

*19 July 2011*

*Mariana Resources Limited (TSX:MRY)(AIM:MARL)(PLUS:MARL) ('Mariana' or 'the Company') the AIM and TSX quoted exploration and development company focused in Argentina and Chile, announces that Mariana's 100% owned Chilean subsidiary has entered into an Option-to-Purchase Agreement with Catalina Resources PLC ('Catalina'), a UK-registered mineral exploration company which operates in Chile, to acquire a 100% interest in the 5,600 ha Jiguata property located in Region I in northern Chile (the "Jiguata Project"). This purchase agreement is in line with the Company's previously announced project generation initiative to acquire prospective gold, silver and copper properties. Mariana's exploration team based in Santiago will focus on assessing the prospective nature of this target.*

### *Overview*

- 20 square kilometre volcanic-hosted "steam-heated" alteration zone indicated from satellite mapping and reconnaissance*
- Native sulphur, opaline/chalcedonic silica, quartz-alunite alteration, barite veining exposed in erosional windows*
- Strongly anomalous mercury, sulphur and molybdenum rock chip geochemistry over an extensive area*
- Alteration and geochemistry indicate a possible concealed high sulphidation epithermal system*
- Geological mapping and geochemical sampling planned followed by Induced Polarisation (IP) geophysics to identify potential resistive horizons at depth, prior to a diamond or reverse circulation ('RC') drilling programme*

*Mariana Chairman, John Horsburgh said, "We are pleased with the option to earn 100% of Jiguata as part of the new project generation initiative announced last year. Early work indicates potential for a concealed high sulphidation gold-silver epithermal system with mapping and IP to define drill targets. This property will be one of the key focus areas of our Chilean exploration team whilst our Argentinean team remains committed to*

*progressing and expanding our flagship Las Calandrias gold-silver discovery in Argentina for which Mariana has just released a maiden resource statement."*

*Catalina, through its wholly-owned, Chilean-registered subsidiary Minera Catalina S.A owns a 100% interest in the Jiguata Project which is located 150 km east-northeast of Iquique in northern Chile (see Figure 1). The property comprises 19 exploration concessions (pedimentos mineros) covering a total area of 5,600 ha. The area largely consists of andesites and volcanic breccias of probable Miocene-Pliocene age showing alteration characteristics of high-sulphidation epithermal gold deposits. Potential host rocks are mostly covered by younger volcanics. The older, altered rocks are exposed in erosional windows in the younger volcanic cover in the base of valleys (see Figure 2).*

#### *Previous Exploration*

*Work to date by Catalina comprises reconnaissance mapping, outcrop sampling and spectral analysis. In the topographically higher areas, particularly towards the East, alteration is dominated by pervasive opaline quartz-alunite-kaolinite assemblages, which may correspond to the "steam-heated zone" typically developed above a high-sulphidation epithermal system. In the northern part of the block there are numerous showings of native sulphur. Some of this steam-heated alteration, with its chalcedony replacement, may be due to lateral flow of ground water and chalcedony silicification.*

*Where the valleys cut through the steam-heated blanket, deeper structurally controlled alteration is present, with a core of residual quartz, grading outward to quartz-alunite and silicic-clay. Outcrop geochemical sampling indicates low precious metals values together with high mercury, sulphur and molybdenum over an extensive area. This has identified three target areas of which Area A is highest priority (Figure 2). Prior to Catalina's work, exploration appears to have been limited to two vertical RC holes, the results of which are not known.*

#### *High Sulphidation Gold Silver Potential*

*The alteration styles evident from satellite mapping and field reconnaissance and the presence of high values for mercury and sulphur, combined with highly anomalous molybdenum values over an extensive area are encouraging indicators of the uppermost part of a high-sulphidation epithermal system. The deeper alteration, where examined, is largely controlled by structures and if a permeable lithology is present at depth, there would be potential for a broad silicic target zone.*

#### *Exploration Planned*

*Mariana plans detailed geological mapping, geochemical sampling, and IP geophysics to identify any prospective resistive horizons at depth, followed by a diamond or RC drilling programme.*

#### *Option Terms*

*The Company has been granted an option to earn a 100% interest in the Jiguata Project exercisable by 1 December 2014, with payments scheduled as follows;*

*Option Payment 1: US\$20,000, payable on signature of Option-to-Purchase Agreement;*

*Option Payment 2: US\$40,000, payable on 1st December 2011;*

*Option Payment 3: US\$40,000, payable on 1st December 2012;*

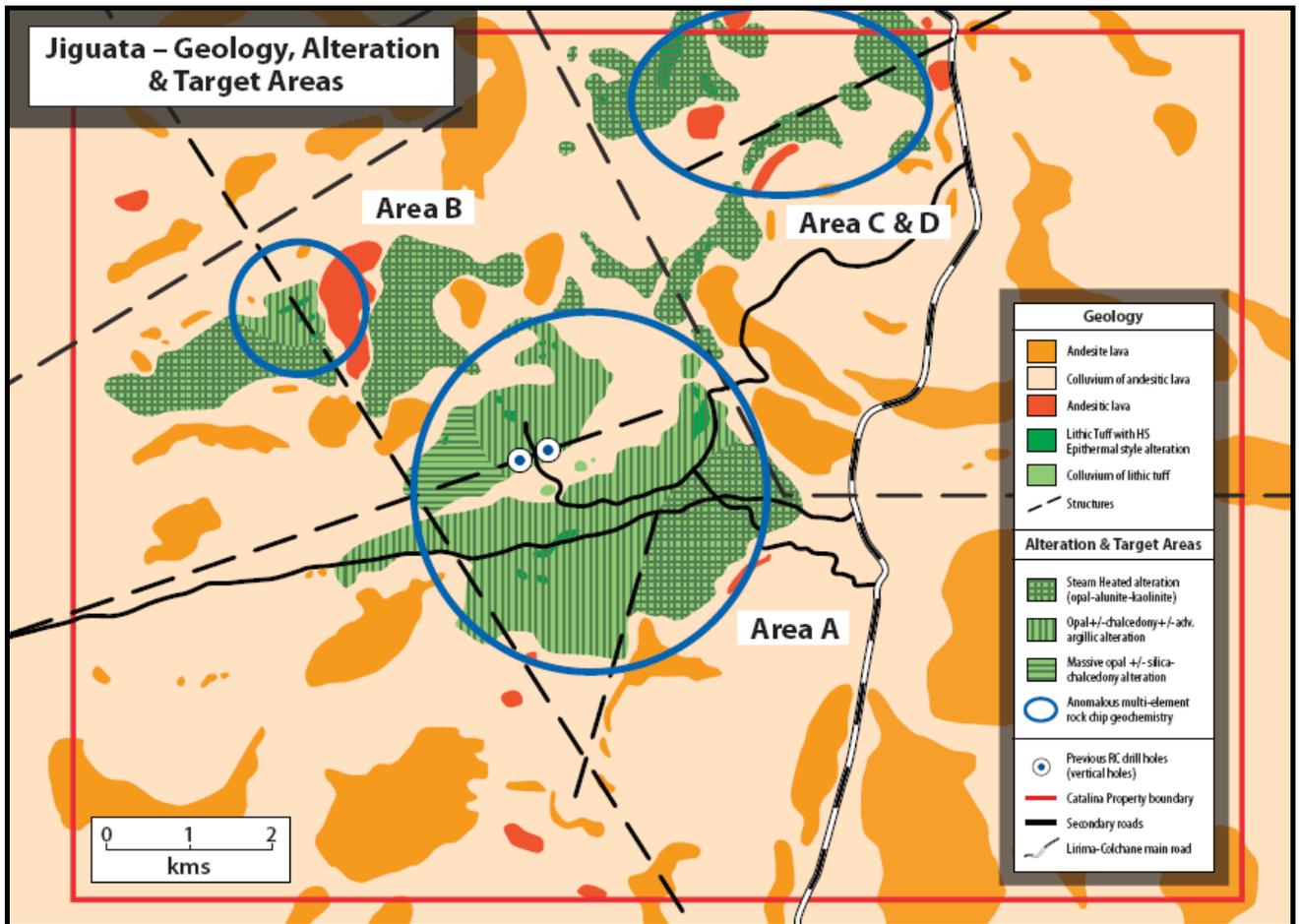
Option Payment 4: US\$50,000, payable on 1st June 2013; and

Option Payment 5: US\$150,000, payable on 1st December 2013.

The final option payment of US\$1,200,000, due 1st December 2014, is payable at any time and if paid before 1 December 2013 subsequent scheduled payments are extinguished. Catalina will retain a 2% royalty on net smelter returns.



**Figure 1** Location of the Jiguata Project



**Figure 2 Jiguata – Geology, Alteration & Target Areas**

If you wish to know more about the Jiguata project, or if you have any questions, please call me or send an email to [psb@catalinaresourcesplc.co.uk](mailto:psb@catalinaresourcesplc.co.uk).

**Peter Bridges**  
**Managing Director,**  
**Catalina Resources PLC**  
19 July 2011

## Disclaimer

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