



**KALGOORLIE-BOULDER
RESOURCES LTD**

ABN 48 106 732 487

ASX Announcement

ASX Codes: KAL, KALO

1 April 2008

GEOPHYSICS SURVEY RESULTS

- Airborne VTEM survey has identified numerous high priority targets.
- VTEM targets along strike of major resources.
- Confirms potential for multiple “blind” deposits at Norseman
- Follow-up ground EM survey planned to prepare for drill testing

Kalgoorlie Boulder Resources Limited (ASX:KAL) is pleased to announce that the airborne **VTEM** survey at the **Norseman Gold Project** has been completed and has identified a number of new areas of potential gold mineralisation.

Data processing is ongoing, but initial indications from the survey have significantly enhanced the prospectivity of the target area, identifying 16 new anomalies.

These anomalies are considered high-priority targets for follow-up exploration over the coming months.

The Company also advises that the **SQUID MLTEM** survey has been completed over the first planned target area at the **Clinker Hill Nickel Project**.

Both the VTEM and SQUID MLTEM surveying methods measure the electro-magnetic response of deep sulphide-rich conductors which may represent mineralised orebodies.

The results of this important exploration initiative – the first time such technology has been employed for gold exploration in the Norseman region - have substantially confirmed the Company’s belief in the potential for numerous “blind” exploration targets at Norseman.

Norseman VTEM

The Norseman VTEM survey covered 158km² and totalled 750 line kilometres and was completed in January. Data processing has been ongoing since then.

The survey identified 16 separate new anomalies in areas which have not previously been drilled. These new anomalies are considered highly encouraging when compared to similar VTEM anomalies associated with the Mt Henry, Selene and Abbotshall deposits where those deposits have shown a significant EM response. The EM signatures of the known orebodies will be used to identify other exploration targets.

The Mt Henry, Selene and Abbotshall deposits account for most of the project's total Indicated and Inferred gold resource of 1.44 Million ounces.

In the Southern Area (See plans), 10 previously unknown anomalies have been indicated. Many of these anomalies are located in the same geological environment as the Mt Henry and Selene deposits but have not previously been drilled.

There are also a number of other discrete anomalies in the Abbotshall or Northern area (See plan) requiring follow-up exploration. Many of these anomalies are along similar structural trends as the Abbotshall Mine.

The Company is now planning a substantial program of follow-up ground-based EM surveying of the more discrete anomalies to better define the targets for drill testing. This process will better define the depth and size of the targets to enable planning of an appropriate follow-up drilling program.

The Company expects to commence the follow-up drilling program in the first half of the new financial year.

KBRL Chairman Michael Atkins said: "These extremely encouraging results further confirm the potential of the Norseman project to host multiple gold deposits and give us even greater confidence that we can continue building on our already substantial gold resource inventory at Norseman."

These results complement the Company's advanced Scoping Study to determine the optimum development options for the Norseman Gold Project.

All of the inputs to the Scoping Study provided by external consultants are now with the Company. It is anticipated that the results of the Scoping Study will now be available in April once all data has been evaluated.

Clinker Hill SQUID MLTEM

Completion of the SQUID survey at Clinker Hill has been delayed due to heavy rain, difficult terrain and thick scrub.

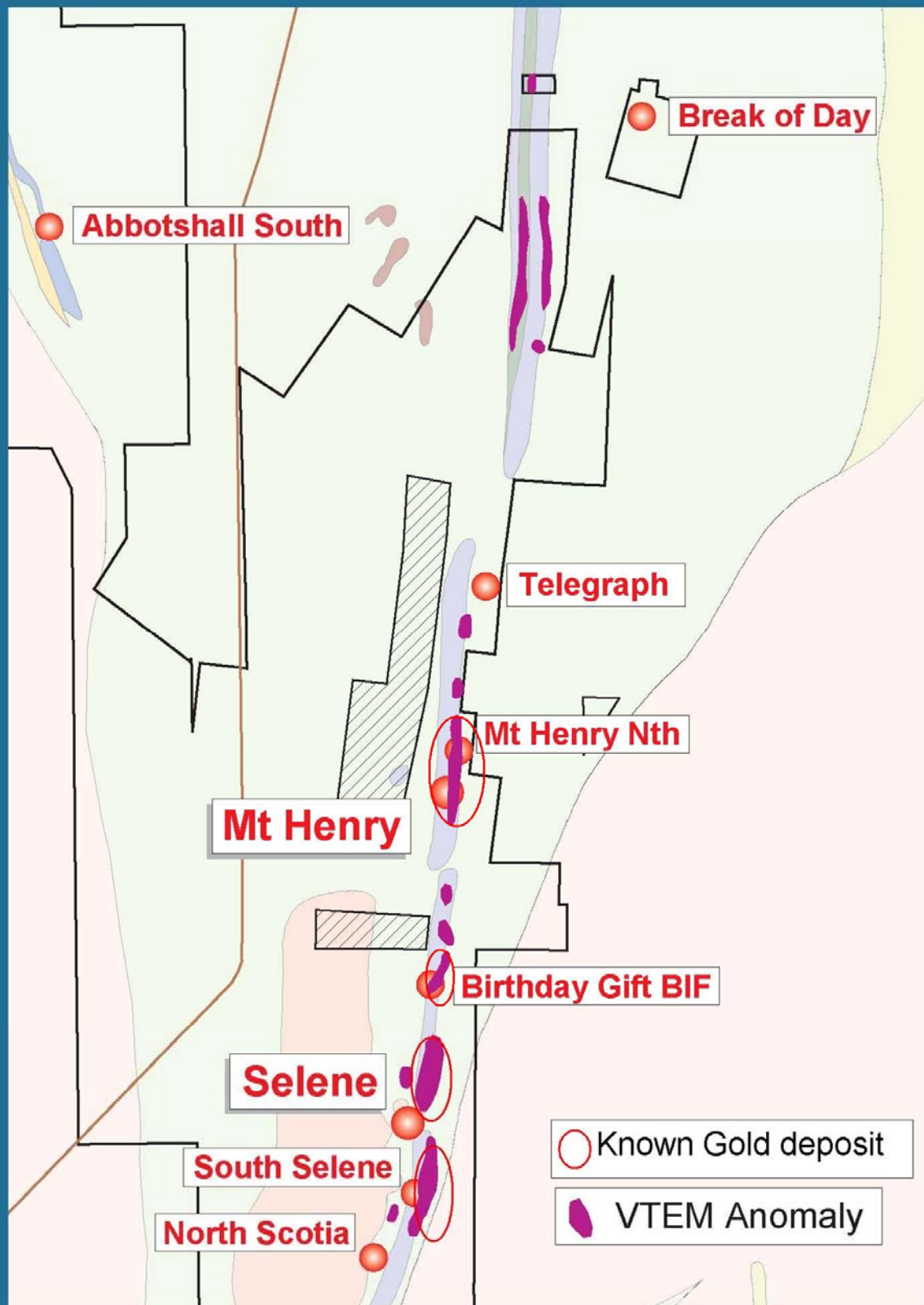
However, surveying has been completed over the basal contact zone, which detected several anomalous responses, including a number at the ends of survey lines. Several survey lines were subsequently extended to target these anomalies.

Once modelling of these anomalies has been completed, a drilling program will commence to test these anomalies for Nickel sulphide mineralisation.

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Richard Breyley, who is a member of the Australasian Institute of Mining and Metallurgy. Richard Breyley is a full time employee of Kalgoorlie Boulder Resources. Richard Breyley has sufficient experience which is relevant to the style of mineralisation and the type of ore deposit under consideration and the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Mineral Resources and Ore Reserves. Richard Breyley consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



NORSEMAN VTEM ANOMALIES SOUTHERN AREA



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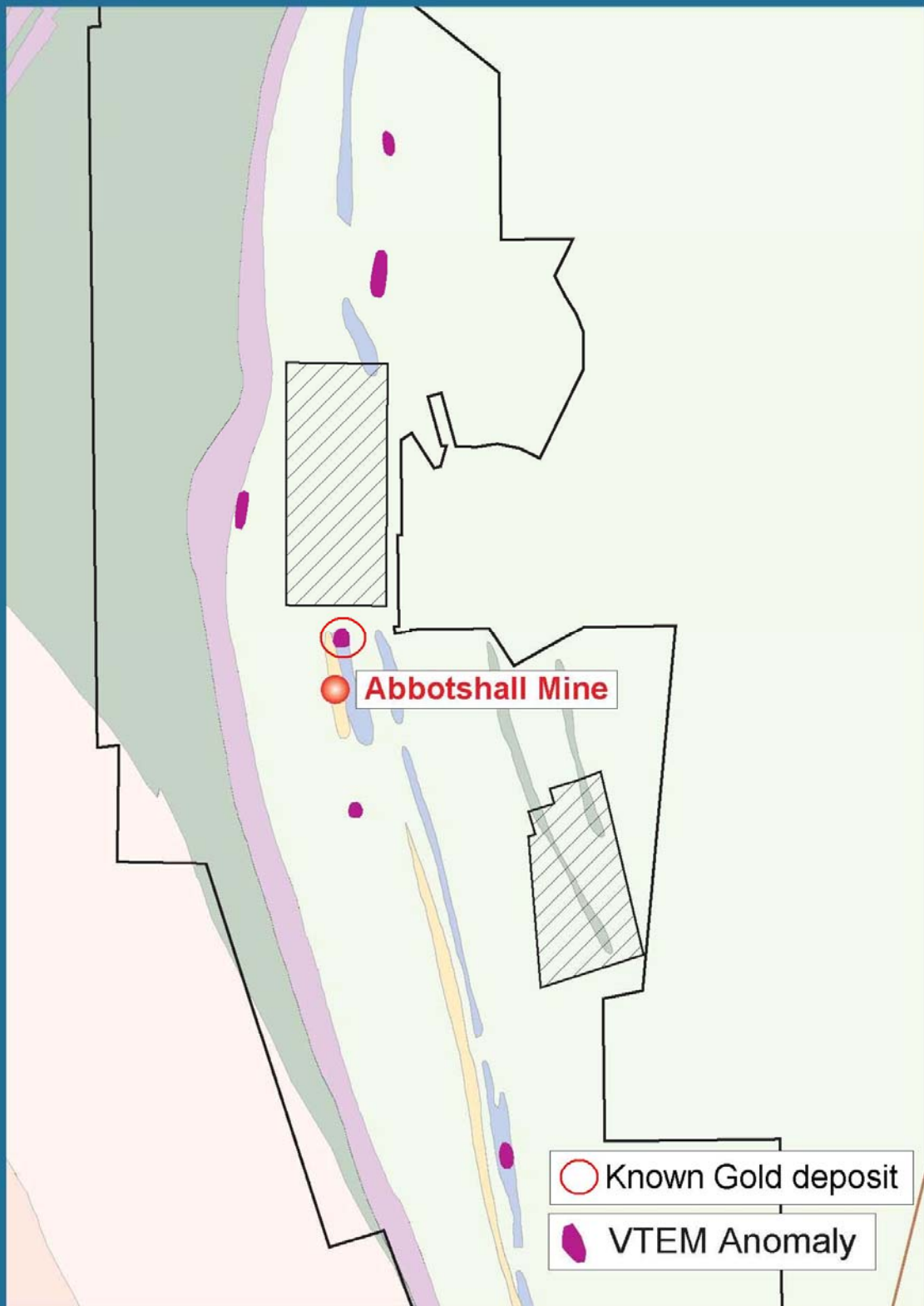
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