

ASX ANNOUNCEMENT 9th November 2016

## **NEW HIGH PRIORITY GOLD TARGETS CONFIRMED AT MT YORK**

Maiden drill program progressing well with first assays due by the end of this week

## **Highlights**

- High-priority strike extensive gold targets in previously unexplored areas at the Mt York Gold-Lithium Project refined by in-fill soil sampling – with strong sample grades of up to 13g/t Au returned.
- 10 diamond holes for 2,450m completed to date at the Old Faithful gold deposit as part of the current drilling program.
- A total of ~4,500m of Diamond and RC drilling on schedule for completion in 2016.
- Drilling to test new high priority targets to commence immediately
- Extensional targets at Iron Stirrup and Main Hill Breccia Hill to follow.



Figure 1. Project Locations

Kairos Minerals Ltd (ASX: KAI) is pleased to advise that it has confirmed a series of strike extensive high priority gold targets located well outside of the known resource areas at its 100%-owned **Mt York Lithium-Gold Project** in the Pilbara region of Western Australia, where its maiden drilling program is progressing well.

The Company recently completed detailed in-fill soil sampling programs on a 50m by 25m spacing over the previously reported MTY012/014 & MTY020 gold in soil anomalies identified during the initial regional campaign, with the results confirming and refining the location of the new targets.

MTY012 & MTY014 are centred approximately 3 kilometres south of the Iron Stirrup gold deposit and define continuous gold in soil anomalism with strongly elevated supporting pathfinder multi-element geochemistry over strike lengths in excess of 2 kilometres and 0.5 kilometres at >30ppb gold respectively. Both trends are spatially associated with the locally important "Lynas Shear Zone" and both remain open along strike. Neither area has been subjected to any previous drill testing.

MTY020 within the Gloucester Prospect is centred 1 kilometre to the east of the Breccia Hill gold deposit and defines a continuous zone of gold in soil anomalism at >30ppb gold with strongly elevated supporting



multi-element pathfinder geochemistry extending over 1.5 kilometres. Several wide spaced historical drill holes indicate depth extensions to the surface anomalism however the area remains under-explored. (Refer to Figures 2 and 3)

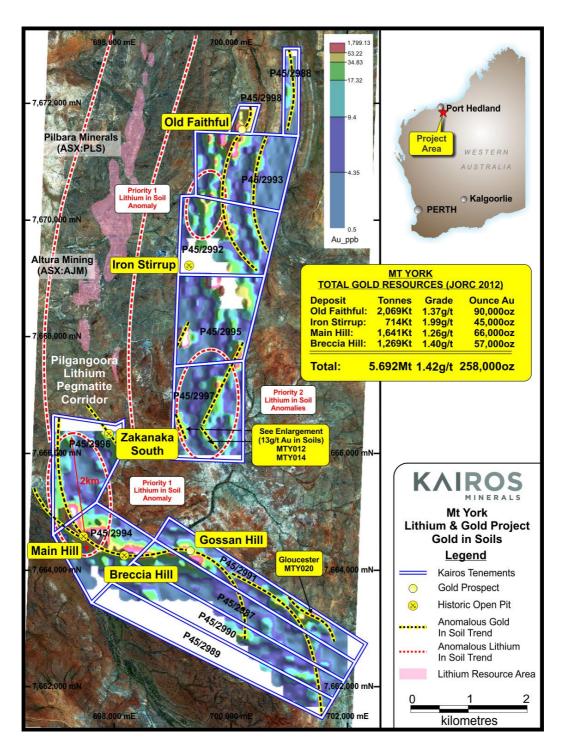


Figure 2. Gold and Lithium Targets - Mt York



The Company's maiden drilling program commenced at Mt York at the end of September (see ASX Announcement – 29 September 2016). Kairos recently reported an upgraded JORC 2012 Indicated and Inferred Mineral Resource estimate of the Mt York Project of 5.692Mt at 1.42g/t Au for 258,000 contained ounces (see ASX Announcement – 5 October 2016). The current phase of exploration at the Project has been designed to test for extensions to the known deposits and to provide first pass evaluation of "virgin" anomalies in order to rapidly expand the Company's gold resources.

## Phase 1 Drilling - Mt York

Phase 1 of the current program was designed to evaluate extensions to the Old Faithful (2.069Mt at 1.37g/t Au for 90,000oz) and Iron Stirrup (714,000t at 1.99g/t Au for 45,000oz) gold deposits, both at depth and along strike.

Drilling has progressed well with 10 diamond holes totaling 2,450 m completed to date at the Old Faithful Gold Deposit. This commitment by Kairos represents the first diamond drilling ever completed at Old Faithful and will provide critical insights into the geological and structural controls on mineralization within the area.

All of the drilling has been undertaken by DDH1 Drilling utilizing a state of the art UDR 1200 multi-purpose drill rig operating on a continuous 2 x 12 hour shift basis.

Visual inspection of the core indicates that all 10 holes encountered multiple zones of strong sulphidebearing and quartz veined alteration. The last four holes targeted a previously unrecognised zone of strong alteration extending over a minimum strike length of 500m along the eastern flank of the known gold deposit close to the contact between a regionally extensive sheared and talc-carbonate altered ultramafic and a prominent, highly altered banded chert.

The auriferous nature of each of these zones won't be known until laboratory analyses are received.

Assay results on the first two holes, KMYD001 and KMYD002, are due at the end of this week with results from additional holes due for receipt in sequence as the detailed geological logging and sampling programs are executed. It is important to note that processing of diamond drill core is considerably more laborious and time consuming that that for RC drilling.

Given the outstanding nature of the recently identified gold in soil anomalies with grades of up to 13g/t (NB: potential nugget effect), the rig will now move to commence an initial assessment of those targets. This will be followed by the planned three RC/Diamond drill holes at the Iron Stirrup Deposit designed to test northern and depth extensions of the known mineralization.

### Phase 2 Drilling – Mt York

Phase 2 will begin with ~1200m of RC drilling at the newly identified high-grade gold targets, MTY012 and MTY014 south of Iron Stirrup and MTY020 at the Gloucester prospect.

This will be followed by four diamond drill holes targeting extensions to the Main Hill and Breccia Hill Gold Deposits and the high priority "Hinge Zone" which separates them and which to date remains untested. In-fill soil sampling of previously identified lithium-tantalum targets is in progress. The results from these new surveys will be used to finalise drill-hole locations.



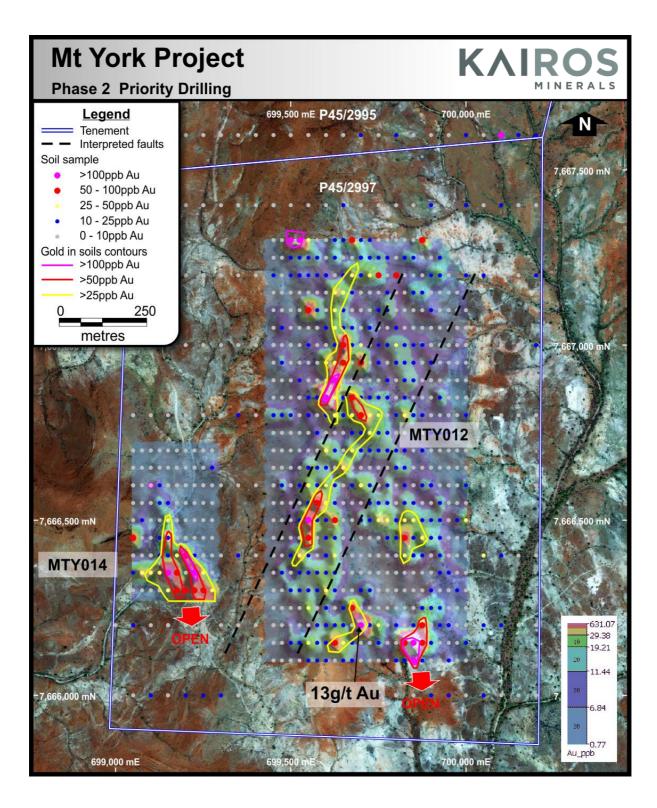


Figure 3. Gold in soil anomalies MTY014 and MTY012 – Mt York



#### **ENDS**

## For further information, please contact:

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#### **COMPETENT PERSON STATEMENT:**

Competent Person: The information in this report that relates to Exploration Results or Mineral Resources is based on information compiled and reviewed by Mr Steve Vallance, who is the Technical Manager for Kairos Minerals Ltd and who is a Member of The Australian Institute of Geoscientists. Mr Vallance has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.' (the JORC Code 2012). Mr Vallance has consented to the inclusion in the report of the matters based on his information in the form and context in which it appears. The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release.

Contributing Technical Team:

Dr Nigel Brand Mr Neil Hutchison Mr Ian Finch

| Reference | ASX Announcement  |
|-----------|---|
| 1         | Pilbara Minerals Limited (ASX: PLS) March Quarterly Report 2016 |
| 2         | Altura Mining Limited (ASX: AJM) March Quarterly Report 2016    |

# **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections.)

| Criteria  | JORC Code explanation   | Commentary  |
|---|---|---|
| Sampling<br>techniques                                  | <ul> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul> | <ul> <li>All drilling results presented by Kairos Minerals Limited (the "Company") for the Iron Stirrup and Old Faithful deposit are summarised from historical work completed by Lynas Gold NL during exploration and mining activities for the period 1987 to 1998.</li> <li>The results were achieved via a combination of RC and diamond drilling. Holes were generally angled towards grid east to provide optimum intersections through the targeted sequence.</li> <li>Industry standard sampling procedures have been adhered to.</li> <li>RC samples were collected typically as 1m intervals using riffle splitters.</li> <li>Diamond drill core was geologically logged to identify intervals for sampling. Sample intervals are generally 1m and reflect geological/lithological contacts.</li> <li>Samples were submitted to a contract laboratory for crushing, pulverizing to produce a 50g charge for fire assay</li> <li>Gridded Soil geochemistry sampling.</li> <li>Certified Reference Material were inserted at regular intervals to provide assay quality checks. The standards reported within acceptable limits.</li> <li>Soil geochemistry: a 100g sample of -0.25mm fraction taken from a depth of between 5 and 20cm below surface.</li> </ul> |
|   | •   | •   |
| Drilling<br>techniques                                  | Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).   | <ul> <li>Diamond drilling was mostly carried out with NQ2 sized equipment, using standard tube.</li> <li>For RC holes, a 5 1/4" face sampling bit was used. For deeper holes, RC holes were followed with diamond tails.</li> <li>No drilling involved.</li> </ul>  |
| Drill sample<br>recovery                                | <ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>  | <ul> <li>Recoveries from historical sampling techniques<br/>are unknown, only Reverse Circulation (RC) and<br/>Diamond Drilling (DD) drill holes are used in the<br/>resource estimate.</li> </ul>  |
| Logging   | <ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>  | <ul> <li>RC and diamond drilling was logged for various geological attributes.</li> <li>All drill holes were logged in full.</li> <li>Soil sampling: basic 'nature of soil and site' log</li> <li>All sample sites were described.</li> </ul>   |
| Sub-sampling<br>techniques and<br>sample<br>preparation | <ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all subsampling stages to maximise representivity of samples.</li> </ul>  | <ul> <li>Core was cut in half to 1m samples or geological / lithological contacts.</li> <li>RC samples were riffle split at the rig and samples as single metre intervals. Samples were generally dry.</li> <li>Field duplicates were taken in the RC drilling.</li> <li>Sample preparation was conducted by a contract</li> <li>Soil sampling: The sample is sieved to the desired fraction in the field.</li> </ul>   |

| Criteria   | JORC Code explanation  | Commentary   |
|--|--|--|
|  | <ul> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>  | <ul> <li>Soil sampling: The sample is sieved to the desired fraction in the field.</li> <li>Soil Geochemistry: Standard Reference Material is included at a rate of 1 per 33 samples, and duplicate samples taken 3 per hundred</li> <li>Soil Geochemistry: Field samples in the order of 100g are considered fit for purpose</li> <li>laboratory.</li> <li>Sample sizes are considered appropriate to correctly represent the gold mineralisation based on; the style of mineralisation, the thickness and consistency of the intersections, the sampling methodology and assay value ranges for Au.</li> </ul>   |
| Quality of assay<br>data and<br>laboratory tests | <ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.</li> </ul> | <ul> <li>For the Lynas Gold NL drilling, the analytical technique used was a 50g fire assay. Samples were analysed by the Australian Assay Laboratories Group in Perth, Western Australia.</li> <li>Laboratory QA/QC includes the use of internal standards using certified reference material, blanks, splits and replicates.</li> <li>Laboratory splits and replicates were analysed and show good accuracy and no sign of bias.</li> <li>The sample preparation and assay method used is considered to be fit for purpose, with initial assays for all elements by 4 acid digest, ICP-MS finish. For high grade lithium values from rock chips, a second peroxide fusion technique with ICP-MS finish was used to determine Al, Li, Cs, Rb.</li> <li>All samples were analysed by a commercial laboratory.</li> <li>Standards and laboratory checks have been assessed. Most of the standards show results within acceptable limits of accuracy, with good precision in most cases. Internal laboratory checks indicate very high levels of precision.</li> </ul> |
| Verification of<br>sampling and<br>assaying      | <ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>  | <ul> <li>Not at this stage of the project development. • Soil Geochemistry: Duplicate samples taken 3 per hundred</li> <li>The Company has a digital SQL drilling database where information is stored. • The Company uses a range of consultants to load and validate data, and appraise quality control samples.</li> <li>The Company has not adjusted any assay data,</li> <li>Significant intersections were visually verified by company geologists at Lynas Gold NL.</li> <li>All assay reports were reported in electronic and paper format.</li> <li>It is assumed verification procedures were robust due to the operation of an effective mine.</li> </ul>   |
| Location of data<br>points                       | <ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>  | <ul> <li>The majority of the holes drilled by Lynas Gold NL in 1987 and 1988 were surveyed by Zuideveld &amp; Bennett (ZB) using a control point with an assumed RL of 500m. Holes from 1993 onwards were surveyed by Lynas Gold NL mine site staff surveyors. All drill hole coordinates were provided in local grid as well as in AMG. A simple translation has converted the drill hole coordinates to MGA Zone 50 and height to the AHD.</li> <li>Down hole surveys were carried out using Eastman Single Shot cameras.</li> <li>Mine working cross checks support the locations of historic drilling.</li> <li>Topographic surface has been prepared from detailed ground and mine surveys.</li> <li>The existing pit outline shown in the sectional interpretations presented in this announcement</li> </ul>  |

| Criteria   | JORC Code explanation  | Commentary   |
|--|--|--|
|  |  | relating to Iron Stirrup reflect the planned pit design. Mining ceased prior to reaching final pit design depths.  • Final pit survey for Iron Stirrup is yet to be confirmed.  • GDA94 Zone 50.   |
| Data spacing and distribution                                    | <ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>                                 | <ul> <li>Soil samples: Gridded at 200x50m</li> <li>Nominal hole spacing of the Lynas Gold NL drilling is approximately 25 by 30m.</li> <li>The mineralised domains have sufficient grade continuity in both geology and grade to be considered appropriate for the Mineral Resource and Ore Reserve estimation procedures and classification applied under the 2012 JORC Code.</li> </ul>  |
| Orientation of<br>data in relation to<br>geological<br>structure | <ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul> | <ul> <li>Soil geochemistry: Possibly gives an indication of the strike direction of individual anomalies.</li> <li>Majority of the drill holes are angled to the east so that intersections are orthogonal to the expected trend of mineralisation.</li> <li>No orientation based sampling has been identified in the data.</li> </ul>   |
| Sample security  | The measures taken to ensure sample security.  | <ul> <li>The Company uses standard industry practices when collecting, transporting and storing samples for analysis.</li> <li>Soil samples are disposed of after analysis.</li> <li>Unknown for historical samples.</li> </ul>  |
| Audits or reviews  | The results of any audits or reviews of sampling techniques and data.  | <ul> <li>Sampling techniques for soil geochemistry have been developed by Pioneer's retained geochemist, Dr NW Brand, of Geochemical Services, Perth. The system has not been specifically audited but is similar to common practice methods in the Australian exploration industry.</li> <li>Review of the historical sampling techniques and data by Christopher Speedy of Auralia found that all procedures and practices conform to industry standards.</li> </ul> |

# **Section 2 Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section.)

| Criteria                                      | JORC Code explanation  | Commentary   |  |  |  |
|---|--|--|--|--|--|
| Mineral tenement<br>and land tenure<br>status | <ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul> | <ul> <li>The Iron Stirrup Deposit is located within granted Prospecting Licence P45/2992, which is wholly owned by Kairos Minerals Pty Ltd.</li> <li>The Old Faithful deposit is located within granted Prospecting Licence P45/2993</li> <li>The tenements P45/2998, P45/2988, P45/2993, P45/2992, P45/2995, P45/2997 granted are in good standing with no known encumbrances.</li> <li>The tenements P45/2987,P45/2990,P45/2989,P4 5,2994 and P45/2996 are under application and with no known encumbrances.</li> </ul>  |  |  |  |
| Exploration done by other parties             | Acknowledgment and appraisal of exploration by other parties.  | The Mt. York Lithium – Gold Project was discovered by Lynas Gold NL in the early 1990's and mined a number of deposits as a successful open pit operation by that company between 1994 – 1998. Other companies to have explored the area include Austamax, Carpenteria, MIM and Trafford Resources.  |  |  |  |
| Geology                                       | Deposit type, geological setting and style of mineralisation.  | Regional Geology  The Mt. York Lithium – Gold Project lies within the Pilgangoora Greenstone Belt of the Archaean Pilbara Craton. The Pilbara Craton is composed of greenstone and sediment units which have been deformed by tight isoclinal folds during the intrusion of diapiric granites. The Pilgangoora Greenstone Belt covers an area of about 600 square kilometres and forms the western part of the large central greenstone belt of the east Pilbara The Carlindi Batholith bounds the greenstone belt to the north-east and north-west; the Yule Batholith lies to the south-west and the internal Strelley granitoid lies to the east. |  |  |  |
|   |  | The Pilgangoora Greenstone Belt is dominated by the Pilgangoora Syncline, which contains a sequence of steep dipping, inward younging volcano-sedimentary rocks belonging to the two lower groups of the Pilbara Supergroup, the Warrawoona, and Gorge Creek Groups. The Warrawoona Group dominates the lithology of the synclinal limbs, whilst the Gorge Creek Group conformably overlies the Warrawoona Group and dominates the lithology within the synclinal core   |  |  |  |
|   |  | Local geology The western edge of the Pilgangoora Syncline is stoped out by regional granite, partly along north-striking faults. A gently dipping, anticlinally domed dolerite exhibiting high deformation structures lies on the western side of the syncline. Gently dipping pegmatite sills associated with the waning phase of granite intrusion intrude the dolerite. These pegmatites are the source of   |  |  |  |

Criteria JORC Code explanation Commentary

tantalum - lithium mineralisation in the area. A serpentinised peridotite forms a semicontinuous member along the eastern edge of the dolerite. Just north of the Zakanaka gold deposit, the peridotite is structurally thickened and swings around the doleritic anticlinal core to strike north north-west. A mixed suite of talc-carbonate-chlorite schists, peridotite and dolerite, lie to the east of the serpentinised peridotite. This hybrid suite is extensively developed to the west of Old Faithful and contains a thin chert marker horizon and heavily brecciated, coarsely amphibolitised lenses. This suite is missing at Iron Stirrup, and the serpentinised peridotite is in direct contact with the Iron Stirrup ultramafic.

The Iron Stirrup ultramafic is the main host rock for gold mineralisation at the Old Faithful, Iron Stirrup, and Darius prospects. The unit is dominantly talc-carbonate schist with some talc-carbonate-chlorite and talc-chlorite assemblages. The suite is highly deformed and is thought to have a volcanic and komatitic affinity, possibly in association with Archaean sea-floor spreading or rifting. The schist diverges southward from the northern parts of the Old Faithful deposit. Drilling and mapping of this area have shown that the schist is in fact part of the Iron Stirrup ultramafic.

#### Mineralisation

Gold mineralisation at Iron Stirrup and Old Faithful is contained within a well foliated Talc-carbonate-magnetite-serpentite rock with associated pyrite and pyrrhotite. The mineralisation at the Iron Stirrup prospect extends to a vertically drilled depth of at least 125m, in part of the zone and remains open at depth throughout most of the strike length (Strike 010), and dips westerly at around 70-80°.

The main structural control at Old Fiathful is a strongly asymmetric synform with a steeply east-dipping east limb and a west limb which, in the central area, dipping flatly east but in the northern and southern area, dips more steeply. To the south the mineralisation shows a gradual plunge to the north of 10 degrees. In the middle of the deposit the primary mineralisation is thrust downwards (fault zone) 20-30m before continuing its gradual plunge of 10 degrees to the north.

Secondary mineralisation occurs below the primary mineralisation as a number of flanking gently to steeply dipping moderate grade lenses of gold mineralisation. Another secondary zone of mineralisation occurs in the north-east of the prospect where enechelon shears occur within the talc-carbonate-chlorite-schist, and dip to the east.

Drill hole Information A summary of all information material to the understanding of the exploration results including a

 Drill hole collar summary and mineralisation width is included in Appendix B for Iron

| Criteria   | JORC Code explanation   | Commentary   |
|--|---|--|
|  | tabulation of the following information for all Material drill holes:  o easting and northing of the drill hole collar o elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar o dip and azimuth of the hole o down hole length and interception depth o hole length.  If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.                               | <ul> <li>Stirrup</li> <li>A list of Drill holes used in the resource is provided as a collar summary is included in Appendix B for Old Faithful</li> <li>Comments relating to drill hole information relevant to the Mineral Resource estimate can be found in Section 1.</li> </ul>   |
| Data aggregation methods   | <ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul> | <ul> <li>Exploration results are not being reported.</li> <li>Not applicable as a Mineral Resource is being reported.</li> <li>Metal equivalent values have not been used.</li> </ul>  |
| Relationship<br>between<br>mineralisation<br>widths and<br>intercept lengths | <ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>   | <ul> <li>All historical drilling has been oriented to intersect the targeted sequence at an optimum angle, ie orthogonal to strike and dip.</li> <li>The intercept summaries presented reflect down hole intersection lengths</li> <li>True widths have not been presented but are estimated to be approximately 80% of the intersection length for most holes.</li> </ul>   |
| Diagrams   | Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.   | Relevant diagrams have been included within the ASX release.   |
| Balanced<br>reporting  | <ul> <li>Where comprehensive reporting of all Exploration<br/>Results is not practicable, representative reporting of<br/>both low and high grades and/or widths should be<br/>practiced to avoid misleading reporting of Exploration<br/>Results.</li> </ul>   | <ul> <li>Exploration results are not being reported. To avoid any misleading reporting of Exploration Results, a listing of drill holes and the mineralisation width and grade is included in Appendix B</li> </ul>  |
| Other substantive<br>exploration data  | Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.   | <ul> <li>All interpretations for the Iron Stirrup mineralisation are consistent with observations made and information gained during previous mining at the Iron Stirrup mine.</li> <li>All interpretations for the Old Faithful mineralisation are consistent with observations made in previous resource estimates.</li> <li>Exploration including mapping, geochemical sampling has been completed elsewhere within the project area but is not relevant to the Mineral Resource Estimate.</li> </ul> |
| Further work   | <ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>   | <ul> <li>At Iron Stirrup and Old Faithful exploration<br/>RC and diamond drilling is planned to test<br/>for extensions and repetitions of the ore<br/>body both at depth and along strike to the<br/>north and south of the existing open pit (Iron<br/>Stirrup).</li> </ul>  |

# **Section 3 Estimation and Reporting of Mineral Resources**

(Criteria listed in section 1, and where relevant in section 2, also apply to this section.)

| Criteria                            | JORC Code explanation  | Commentary   |
|-------------------------------------|--|--|
| Database<br>integrity               | <ul> <li>Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.</li> <li>Data validation procedures used.</li> </ul>  | <ul> <li>The database has been systematically<br/>audited by the CP. Original drilling records<br/>were compared to the equivalent records in<br/>the database. No major discrepancies were<br/>found.</li> </ul>  |
| Site visits                         | <ul> <li>Comment on any site visits undertaken by the<br/>Competent Person and the outcome of those visits.</li> <li>If no site visits have been undertaken indicate why this<br/>is the case.</li> </ul>  | <ul> <li>Given this exercise is to provide and update<br/>to the prior JORC 2004 Resource to enable<br/>compliance for JORC 2012, and given that<br/>no additional drilling has been carried out<br/>since the most recent JORC 2004 Resource<br/>release no site visit has been undertaken by<br/>the CP.</li> </ul>  |
| Geological<br>interpretation        | <ul> <li>Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.</li> <li>Nature of the data used and of any assumptions made.</li> <li>The effect, if any, of alternative interpretations on Mineral Resource estimation.</li> <li>The use of geology in guiding and controlling Mineral Resource estimation.</li> <li>The factors affecting continuity both of grade and geology.</li> </ul>   | <ul> <li>The confidence in the geological interpretation is considered to be high and is based on previous mining history.</li> <li>Geological logging has been used to assist identification of lithology and mineralisation.</li> <li>The deposit consists of a sub-vertical mineralisation zone. Limited infill drilling has supported and refined the model and the current interpretation is considered robust.</li> </ul>  |
| Dimensions                          | The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource.   | <ul> <li>The Iron Stirrup Mineral Resource area extends over a strike length of 315m (from 7,669,085mN – 7,669,400mN) and includes the 250m vertical interval from 220mRL to -30mRL</li> <li>The Old Faithful Mineral Resource area extends over a strike length of 945m (from 7,671,030mN – 7,671,975mN) and includes the 150m vertical interval from 230mRL to 80mRL</li> </ul>  |
| Estimation and modelling techniques | <ul> <li>The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.</li> <li>The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.</li> <li>The assumptions made regarding recovery of byproducts.</li> <li>Estimation of deleterious elements or other non-grade variables of economic significance (eg sulphur for acid mine drainage characterisation).</li> <li>In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.</li> <li>Any assumptions behind modelling of selective mining units.</li> <li>Any assumptions about correlation between variables.</li> <li>Description of how the geological interpretation was used to control the resource estimates.</li> <li>Discussion of basis for using or not using grade cutting or capping.</li> <li>The process of validation, the checking process used, the comparison of model data to drill hole data, and use of reconciliation data if available.</li> </ul> | <ul> <li>Grade estimation using Ordinary Kriging (OK) was undertaken using Surpac software, was used to undertake spatial analyses of the data. One element, Au g/t was estimated using parent cell estimation, with density being assigned by lithology and oxidation state (see section below). Drill hole data was coded using three dimensional domains reflecting the geological interpretation based on the structural, lithological, alteration and oxidation characteristics of the Mineral Resource. One metre composited data was used to estimate the domains. The domains were treated as hard boundaries and only informed by data from the domain. The impact of outliers in the sample distributions used to inform each domain was reduced by the use of grade capping. Grade capping was applied on a domain scale and a combination of analytical tools such as histograms of grade, Coefficient of Variation (COV) analysis and log probability plots were used to determine the grade caps for each domain. A top cut of 10g/t was used for both Iron Stirrup and Old Faithful.</li> <li>Iron Stirrup</li> <li>A Parent block size was selected at 2m x 5m x 5m for the Iron Stirrup Deposit, no subblocking occured.</li> </ul> |

Search Pass 1 used a minimum of 8 samples and a maximum of 32 samples in

| Criteria                      | JO | PRC Code explanation   | Commer | ntary  |
|-------------------------------|----|--|--------|--|
|                               |    |  |        | the first pass, minimum of 4 samples and a maximum of 32 samples in the second pass and in the third pass a minimum of 2 and a maximum of 32 samples.  A dynamic search strategy was used with the search ellipse oriented to the semivariogram model. The first pass was at the variogram range, with subsequent passes expanding the ellipse by factors of 1.5 and 2, then a final factor of 3 was used to inform any remaining unfilled blocks. The majority of the Mineral Resource was informed by the first two passes, domains that were informed by the third and fourth pass were flagged with a lower resource classification or remain unclassified.  Old Faithful  A Parent block size was selected at 5m x 4m x 4m for the Iron Stirrup Deposit, with subblocking down to 1.25m x 1m x 1m.  Search Pass 1 used a minimum of 8 samples and a maximum of 32 samples in the first pass, minimum of 4 samples and a maximum of 32 samples in the second pass and in the third pass a minimum of 2 and a maximum of 32 samples.  A dynamic search strategy was used with the search ellipse oriented to the semivariogram model. The first pass was at the variogram range, with subsequent passes expanding the ellipse by factors of 1.5 and 2, then a final factor of 3 was used to inform any remaining unfilled blocks. The majority of the Mineral Resource was informed by the third and fourth pass were flagged with a lower resource classification or remain unclassified.  No assumption of mining selectivity has been incorporated into the estimate.  Only Au was estimated in the Mineral Resource.  The deposit mineralisation was constrained by wireframes constructed using a 0.5g/t Au cut-off grade.  Validation of Mineral Resource comprised comparing block grades against the data used to inform the estimate on a domain by domain basis, visual comparison of the informing data against the estimate and the use of swath plots showing grade trends by easting northing and elevation of the input data against the estimate. |
| Moisture                      | •  | Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.   | •      | Mineral Resource tonnage estimates are on a dry basis.   |
| Cut-off<br>parameters         | •  | The basis of the adopted cut-off grade(s) or quality parameters applied.   | •      | Mineral Resources are reported using a cut-<br>off grade of 0.5 g/t Au for the Iron Stirrup<br>Resource and Mineral Resources are<br>reported using a cut-off grade of 0.9 g/t for<br>the Old Faithful Resource.   |
| Mining factors or assumptions | •  | Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction | •      | The CP has assumed that the deposit could potentially be mined using open pit mining techniques. Economic open pit mining has previously occurred at the Iron Stirrup deposit during a period of decreased   |

| Criteria                                    | JORC Code explanation  | Commentary  |
|---|--|---|
|   | to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.  | economic sale factors, including a much reduced gold price. No assumptions have been made for mining dilution or mining widths, however mineralisation is generally broad. Mining dilution and ore loss will be incorporated into any Mineral Reserve works estimated from this Mineral Resource.   |
| Metallurgical<br>factors or<br>assumptions  | The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.   | <ul> <li>It is assumed that extraction of gold will be<br/>achieved by gravity and cyanide leaching<br/>methods for the mineralised lode, with<br/>recoveries greater than 90%.</li> </ul>  |
| Environmen-tal<br>factors or<br>assumptions | Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made. | No assumptions have been made regarding<br>environmental factors. Historical open-cut<br>mining has occurred at the Iron Stirrup<br>deposit. The Company will work to mitigate<br>environmental impact as a result of any<br>future mining or mineral processing.   |
| Bulk density                                | <ul> <li>Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.</li> <li>The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit.</li> <li>Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.</li> </ul>   | <ul> <li>Bulk density assumptions used in the resource estimate were from testing in the exploration programs and subsequent mining by Lynas Gold NL.</li> <li>Specific gravity was determined by water displacement with wax coating.</li> </ul>   |
| Classification                              | <ul> <li>The basis for the classification of the Mineral Resources into varying confidence categories.</li> <li>Whether appropriate account has been taken of all relevant factors (ie relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).</li> <li>Whether the result appropriately reflects the Competent Person's view of the deposit.</li> </ul>   | <ul> <li>The Mineral Resource estimate is reported here in compliance with the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' by the Joint Ore Reserves Committee (JORC). The Mineral Resource at Iron Stirrup was classified as Indicated and Inferred Mineral Resource based on data quality, sample spacing and lode continuity. The Indicated Mineral Resource was defined within areas of close spaced diamond and RC drilling and by a combination of estimation passes 1 and 2 and a minimum of informing samples of 8. Inferred resources were defined by a combination of estimation passes (1-3) and any material in any of the first two passes being below RL 60m and minimum informing samples of 4.</li> <li>The Mineral Resource at Old Faithful was classified as Indicated and Inferred Mineral Resource based on data quality, sample spacing and lode continuity. The Indicated Mineral Resource was defined within areas of close spaced diamond and RC drilling and by a combination of estimation passes 1 and 2 and a minimum number of informing samples of 8. Inferred resources were defined by a combination of estimation passes (2-3) and a minimum number of informing samples of 4.</li> </ul> |

| Criteria                                   | JORC Code explanation   | Commentary   |
|--|---|--|
|  |   | <ul> <li>The input data is comprehensive in its coverage of the mineralisation and does not favour or misrepresent in-situ mineralisation. The definition of mineralised zones is based on high level geological understanding producing a robust model of mineralised domains. Validation of the block model shows good correlation of the input data to the estimated grades.</li> <li>The Mineral Resource estimate appropriately reflects the view of the CP.</li> </ul> |
| Audits or reviews                          | The results of any audits or reviews of Mineral<br>Resource estimates.  | No audits or review of the Mineral Resource estimate has been conducted.   |
| Discussion of relative accuracy/confidence | <ul> <li>Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate.</li> <li>The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used.</li> <li>These statements of relative accuracy and confidence of the estimate should be compared with production data, where available.</li> </ul> | <ul> <li>The lode geometry and continuity has been adequately interpreted to reflect the level of Indicated and Inferred Mineral Resource. A recognized laboratory has been used for all analyses.</li> <li>The Mineral Resource statement relates to global estimates of tonnes and grade.</li> </ul>   |

Appendix B – Drill holes used in the Iron Stirrup model with mineralisation intercept width and grade (Note: not true thickness).

| Collar |                                       |           |     |                | Orie | ntation |             | Α         | ssays         |             |
|--------|---------------------------------------|-----------|-----|----------------|------|---------|-------------|-----------|---------------|-------------|
| Hole   | Easting                               | Northing  | RL  | Total<br>Depth | Dip  | Azimuth | From<br>(m) | To<br>(m) | Length<br>(m) | Au<br>(ppm) |
| DIS1   | 699,225                               | 7,669,147 | 225 | 119            | - 60 | 92      | 80          | 105       | 25            | 2.29        |
| DIS2   | 699,268                               | 7,669,149 | 225 | 75             | - 60 | 88      | 38          | 54        | 16            | 1.30        |
| DIS3   | 699,291                               | 7,669,266 | 216 | 153            | - 60 | 90      | 30          | 50        | 20            | 1.84        |
| DIS4   | 699,259                               | 7,669,271 | 207 | 105            | - 60 | 90      | 67          | 88        | 21            | 3.00        |
| DIS5   | 699,231                               | 7,669,273 | 203 | 155            | - 60 | 94      | 104         | 127       | 23            | 3.80        |
| DIS6   | 699,302                               | 7,669,220 | 211 | 93             | - 70 | 92      | 11          | 44        | 33            | 1.84        |
| ISE10  | 699,197                               | 7,669,203 | 205 | 150            | - 60 | 93      | 123         | 131       | 8             | 1.40        |
| ISE11  | 699,194                               | 7,669,257 | 199 | 180            | - 60 | 93      | 148         | 172       | 24            | 3.31        |
| ISE12  | 699,206                               | 7,669,273 | 198 | 160            | - 60 | 93      | 144         | 160       | 16            | 3.52        |
| ISE13  | · · · · · · · · · · · · · · · · · · · | , ,       | 196 | 180            |      | 93      | 126         | 139       | 13            | 2.48        |
|        | 699,222                               | 7,669,302 | 1   |                | - 60 |         |             |           |               | 1           |
| ISE14  | 699,228                               | 7,669,314 | 195 | 150            | - 60 | 93      | 126         | 130       | 4             | 0.92        |
| ISE6   | 699,236                               | 7,669,101 | 205 | 115            | - 75 | 93      | 79          | 90        | 11            | 2.05        |
| ISE7   | 699,225                               | 7,669,126 | 205 | 143            | - 67 | 93      | 79          | 94        | 15            | 2.82        |
| ISE9   | 699,200                               | 7,669,178 | 205 | 160            | - 66 | 93      | 126         | 129       | 3             | 1.04        |
| ISP099 | 699,164                               | 7,669,255 | 197 | 250            | - 60 | 90      | 169         | 187       | 18            | 1.83        |
| ISP100 | 699,134                               | 7,669,156 | 209 | 250            | - 60 | 90      | 182         | 191       | 9             | 1.26        |
| ISP11  | 699,337                               | 7,669,292 | 202 | 58             | - 40 | 269     | 4           | 37        | 33            | 2.78        |
| ISP111 | 699,291                               | 7,669,150 | 216 | 51             | - 60 | 90      | 16          | 32        | 16            | 2.76        |
| ISP112 | 699,297                               | 7,669,149 | 216 | 42             | - 60 | 90      | 11          | 21        | 10            | 1.86        |
| ISP113 | 699,302                               | 7,669,147 | 215 | 30             | - 60 | 90      | 2           | 16        | 14            | 0.18        |
| ISP114 | 699,308                               | 7,669,146 | 214 | 25             | - 60 | 90      | 2           | 8         | 6             | 1.30        |
| ISP115 | 699,311                               | 7,669,145 | 213 | 20             | - 60 | 90      | 1           | 3         | 2             | 0.51        |
| ISP117 | 699,286                               | 7,669,144 | 218 | 20             | - 60 | 90      | 19          | 20        | 1             | 0.53        |
| ISP119 | 699,295                               | 7,669,143 | 217 | 15             | - 60 | 90      | 8           | 15        | 7             | 1.74        |
| ISP119 |                                       |           | 204 | 50             | - 42 | 273     | 0           | 13        | 1             | 0.74        |
|        | 699,320                               | 7,669,293 | 1   |                |      |         |             |           |               |             |
| ISP120 | 699,300                               | 7,669,142 | 216 | 15             | - 60 | 90      | 2           | 14        | 12            | 3.33        |
| ISP121 | 699,306                               | 7,669,142 | 215 | 10             | - 60 | 90      | 0           | 10        | 10            | 1.45        |
| ISP122 | 699,310                               | 7,669,141 | 214 | 10             | - 60 | 90      | 1           | 3         | 2             | 0.78        |
| ISP123 | 699,285                               | 7,669,129 | 223 | 20             | - 60 | 90      | 6           | 20        | 14            | 2.01        |
| ISP124 | 699,290                               | 7,669,129 | 221 | 20             | - 60 | 90      | 1           | 20        | 19            | 2.17        |
| ISP125 | 699,296                               | 7,669,128 | 219 | 15             | - 60 | 90      | 1           | 14        | 13            | 1.30        |
| ISP126 | 699,300                               | 7,669,128 | 219 | 15             | - 60 | 90      | 0           | 8         | 8             | 1.26        |
| ISP127 | 699,306                               | 7,669,127 | 217 | 10             | - 60 | 90      | 0           | 1         | 1             | 2.01        |
| ISP130 | 699,290                               | 7,669,119 | 223 | 20             | - 60 | 90      | 0           | 19        | 19            | 1.70        |
| ISP131 | 699,295                               | 7,669,118 | 222 | 20             | - 60 | 90      | 4           | 14        | 10            | 1.43        |
| ISP132 | 699,299                               | 7,669,118 | 220 | 15             | - 60 | 90      | 0           | 9         | 9             | 0.64        |
| ISP133 | 699,304                               | 7,669,118 | 219 | 15             | - 60 | 90      | 2           | 4         | 2             | 7.69        |
| ISP136 | 699,293                               | 7,669,109 | 223 | 20             | - 60 | 90      | 1           | 11        | 10            | 0.73        |
| ISP137 | 699,299                               | 7,669,108 | 221 | 15             | - 60 | 90      | 0           | 7         | 7             | 1.33        |
| ISP138 | 699,303                               | 7,669,107 | 220 | 15             | - 60 | 90      | 0           | 1         | 1             | 0.88        |
|        | 699,294                               | , ,       |     |                |      |         |             | 1         |               |             |
| ISP139 | ,                                     | 7,669,099 | 225 | 20             | - 60 | 90      | 30          | 7         | 3             | 1.36        |
| ISP24  | 699,308                               | 7,669,283 | 206 | 35             | - 90 | 90      | 30          | 35        | 5             | 0.77        |
| ISP29  | 699,334                               | 7,669,340 | 200 | 30             | - 57 | 89      | 2           | 11        | 9             | 2.27        |
| ISP30  | 699,324                               | 7,669,340 | 200 | 30             | - 57 | 89      | 5           | 21        | 16            | 3.90        |
| ISP31  | 699,264                               | 7,669,292 | 203 | 100            | - 57 | 90      | 62          | 86        | 24            | 2.37        |
| ISP32  | 699,279                               | 7,669,245 | 207 | 75             | - 57 | 92      | 39          | 54        | 15            | 3.69        |
| ISP33  | 699,237                               | 7,669,199 | 204 | 125            | - 57 | 90      | 67          | 85        | 18            | 2.09        |
| ISP34  | 699,232                               | 7,669,198 | 204 | 148            | - 79 | 90      | 99          | 108       | 9             | 1.25        |
| ISP35  | 699,276                               | 7,669,198 | 208 | 88             | - 56 | 90      | 26          | 54        | 28            | 2.18        |
| ISP36  | 699,274                               | 7,669,147 | 220 | 100            | - 56 | 90      | 31          | 45        | 14            | 1.23        |
| ISP37  | 699,236                               | 7,669,148 | 220 | 133            | - 56 | 90      | 71          | 96        | 25            | 1.42        |
| ISP38  | 699,195                               | 7,669,149 | 220 | 146            | - 56 | 90      | 108         | 132       | 24            | 1.60        |
| ISP39  | 699,240                               | 7,669,247 | 200 | 167            | - 56 | 91      | 74          | 98        | 24            | 2.78        |
| ISP40  | 699,239                               | 7,669,293 | 198 | 144            | - 58 | 93      | 92          | 115       | 23            | 4.62        |
| ISP41  | 699,237                               | 7,669,293 | 197 | 154            | - 78 | 91      | 118         | 145       | 27            | 3.06        |
|        |                                       |           |     |                |      |         |             | 1         |               |             |
| ISP42  | 699,218                               | 7,669,099 | 249 | 149            | - 68 | 90      | 106         | 115       | 9             | 1.78        |

| Collar         |                    |                        |     | Orientation |              |          | А       | ssays    |         |              |
|----------------|--------------------|------------------------|-----|-------------|--------------|----------|---------|----------|---------|--------------|
| Hole           | Easting            | Northing               | RL  | Total       | Dip          | Azimuth  | From    | То       | Length  | Au           |
|                |                    |                        |     | Depth       | •            |          | (m)     | (m)      | (m)     | (ppm)        |
| ISP43          | 699,252            | 7,669,096              | 249 | 101         | - 56         | 90       | 52      | 58       | 6       | 1.33         |
| ISP46          | 699,334            | 7,669,365              | 204 | 20          | - 57         | 92       | 1       | 20       | 19      | 1.55         |
| ISP47          | 699,323            | 7,669,365              | 204 | 33          | - 56         | 90       | 19      | 33       | 14      | 1.32         |
| ISP49          | 699,278            | 7,669,340              | 200 | 80          | - 56         | 88       | 67      | 76       | 9       | 1.10         |
| ISP50          | 699,245            | 7,669,340              | 197 | 105         | - 56         | 91       | 104     | 105      | 1       | 3.48         |
| ISP53<br>ISP54 | 699,336<br>699,336 | 7,669,392              | 201 | 75<br>40    | - 58         | 89<br>91 | 26<br>5 | 42<br>11 | 16<br>6 | 2.52         |
| ISP54          | 699,336            | 7,669,378              | 202 | 60          | - 58         |          | 18      | 26       | 8       | 1.36<br>1.36 |
| ISP57          | 699,304            | 7,669,379<br>7,669,340 | 202 | 100         | - 58<br>- 57 | 89<br>89 | 34      | 48       | 14      | 2.69         |
| ISP58          | 699,268            | 7,669,319              | 200 | 115         | - 58         | 89       | 66      | 80       | 14      | 2.53         |
| ISP59          | 699,261            | 7,669,270              | 202 | 125         | - 57         | 90       | 61      | 85       | 24      | 2.34         |
| ISP60          | 699,303            | 7,669,317              | 202 | 70          | - 57         | 89       | 26      | 45       | 19      | 4.66         |
| ISP61          | 699,293            | 7,669,267              | 210 | 70          | - 57         | 88       | 27      | 48       | 21      | 2.35         |
| ISP62          | 699,229            | 7,669,272              | 199 | 158         | - 57         | 92       | 100     | 120      | 20      | 3.79         |
| ISP63          | 699,213            | 7,669,124              | 231 | 131         | - 57         | 87       | 87      | 116      | 29      | 4.13         |
| ISP64          | 699,247            | 7,669,122              | 231 | 90          | - 58         | 89       | 42      | 71       | 29      | 1.69         |
| ISP65          | 699,265            | 7,669,122              | 231 | 55          | - 57         | 90       | 30      | 51       | 21      | 1.71         |
| ISP66          | 699,257            | 7,669,148              | 220 | 90          | - 58         | 89       | 47      | 77       | 30      | 1.85         |
| ISP67          | 699,274            | 7,669,172              | 212 | 80          | - 58         | 89       | 27      | 66       | 39      | 2.10         |
| ISP68          | 699,258            | 7,669,173              | 212 | 90          | - 58         | 90       | 46      | 77       | 31      | 2.25         |
| ISP69          | 699,236            | 7,669,171              | 212 | 105         | - 58         | 89       | 71      | 100      | 29      | 1.93         |
| ISP70          | 699,187            | 7,669,177              | 215 | 160         | - 58         | 92       | 121     | 139      | 18      | 1.55         |
| ISP71          | 699,278            | 7,669,221              | 209 | 75          | - 58         | 91       | 34      | 68       | 34      | 3.26         |
| ISP72          | 699,236            | 7,669,223              | 207 | 115         | - 58         | 86       | 83      | 95       | 12      | 2.84         |
| ISP73          | 699,199            | 7,669,225              | 213 | 170         | - 59         | 87       | 122     | 139      | 17      | 1.80         |
| ISP76          | 699,302            | 7,669,394              | 201 | 100         | - 60         | 88       | 69      | 71       | 2       | 0.85         |
| ISP78          | 699,330            | 7,669,365              | 204 | 50          | - 60         | 91       | 9       | 24       | 15      | 2.19         |
| ISP79          | 699,296            | 7,669,366              | 203 | 100         | - 60         | 90       | 69      | 72       | 3       | 0.79         |
| ISP80          | 699,233            | 7,669,320              | 196 | 165         | - 60         | 90       | 116     | 132      | 16      | 1.67         |
| ISP81          | 699,226            | 7,669,247              | 200 | 160         | - 69         | 90       | 109     | 139      | 30      | 2.96         |
| ISP82          | 699,245            | 7,669,341              | 197 | 150         | - 60         | 88       | 114     | 131      | 17      | 2.37         |
| ISP89          | 699,241            | 7,669,306              | 197 | 129         | - 60         | 90       | 107     | 123      | 16      | 3.19         |
| ISP90          | 699,302            | 7,669,219              | 210 | 40          | - 60         | 90       | 8       | 40       | 32      | 0.54         |
| ISP91          | 699,305            | 7,669,249              | 206 | 40          | - 60         | 88       | 2       | 28       | 26      | 2.72         |
| ISP92          | 699,305            | 7,669,249              | 207 | 40          | - 70         | 92       | 3       | 33       | 30      | 2.69         |
| ISP93          | 699,313            | 7,669,272              | 206 | 30          | - 60         | 91       | 1       | 25       | 24      | 1.41         |
| ISP94          | 699,318            | 7,669,324              | 200 | 38          | - 60         | 91       | 10      | 29       | 19      | 2.55         |
| ISP95          | 699,276            | 7,669,099              | 231 | 40          | - 60         | 90       | 24      | 30       | 6       | 1.46         |
| ISP97          | 699,291            | 7,669,150              | 216 | 33          | - 60         | 94       | 14      | 31       | 17      | 2.88         |
| ISP98          | 699,307            | 7,669,172              | 210 | 31          | - 80         | 91       | 0       | 25       | 25      | 1.43         |
| ISRC15         | 699,192            | 7,669,310              | 181 | 184         | - 60         | 93       | 145     | 154      | 9       | 0.23         |
| ISRC16         | 699,188            | 7,669,208              | 180 | 190         | - 60         | 93       | 110     | 116      | 6       | 1.61         |
| ISRC19         | 699,250            | 7,669,165              | 120 | 80          | - 68         | 180      | 23      | 31       | 8       | 1.44         |
| ISRC20         | 699,250            | 7,669,175              | 120 | 90          | - 87         | 72       | 32      | 40       | 8       | 2.13         |

Appendix B – Drill holes used in the Old Faithful model

|                | Collar  |           |     |             |     | Orientation |  |  |
|----------------|---------|-----------|-----|-------------|-----|-------------|--|--|
| Hole           | Easting | Northing  | RL  | Total Depth | Dip | Azimuth     |  |  |
| 080FRC001      | 700,044 | 7,671,276 | 212 | 124         | -60 | 92.5        |  |  |
| 080FRC002      | 699,988 | 7,671,286 | 210 | 166         | -60 | 92.5        |  |  |
| 080FRC003      | 700,027 | 7,671,315 | 212 | 190         | -60 | 92.5        |  |  |
| 080FRC004      | 700,032 | 7,671,340 | 213 | 124         | -60 | 92.5        |  |  |
| 080FRC005      | 700,028 | 7,671,366 | 212 | 148         | -60 | 92.5        |  |  |
| 080FRC007      | 700,097 | 7,671,411 | 213 | 136         | -60 | 92.5        |  |  |
| 080FRC008      | 700,049 | 7,671,384 | 212 | 130         | -60 | 92.5        |  |  |
| ISNP51         | 700,084 | 7,671,259 | 210 | 75          | -56 | 274.25      |  |  |
| ISNP52         | 700,018 | 7,671,264 | 209 | 75          | -56 | 92.75       |  |  |
| OF101          | 700,374 | 7,671,847 | 227 | 120         | -60 | 272.75      |  |  |
| OF102          | 700,342 | 7,671,846 | 228 | 80          | -60 | 272.75      |  |  |
| OF108          | 700,329 | 7,671,698 | 228 | 80          | -60 | 272.75      |  |  |
| OF109          | 700,348 | 7,671,697 | 229 | 120         | -60 | 272.75      |  |  |
| OF110          | 700,369 | 7,671,701 | 229 | 120         | -60 | 272.75      |  |  |
| OF111          | 700,388 | 7,671,700 | 229 | 120         | -60 | 272.75      |  |  |
| OF112          | 700,342 | 7,671,897 | 230 | 100         | -60 | 272.75      |  |  |
| OF115          | 700,360 | 7,671,797 | 229 | 120         | -60 | 272.75      |  |  |
| OF116          | 700,339 | 7,671,797 | 228 | 100         | -60 | 272.75      |  |  |
| OF117          | 700,360 | 7,671,737 | 230 | 120         | -60 | 272.75      |  |  |
|                |         |           | 229 | 80          | -60 |             |  |  |
| OF118          | 700,341 | 7,671,750 |     |             |     | 272.75      |  |  |
| OF119          | 700,298 | 7,671,648 | 223 | 120         | -60 | 92.75       |  |  |
| OF120          | 700,318 | 7,671,647 | 225 | 120         | -60 | 96.75       |  |  |
| OF121          | 700,337 | 7,671,648 | 228 | 100         | -60 | 92.75       |  |  |
| OF122          | 700,323 | 7,671,749 | 227 | 60          | -60 | 272.75      |  |  |
| OF123          | 700,316 | 7,671,600 | 224 | 100         | -60 | 92.75       |  |  |
| OF124          | 700,297 | 7,671,601 | 222 | 120         | -60 | 92.75       |  |  |
| OF125          | 700,336 | 7,671,599 | 229 | 80          | -60 | 92.75       |  |  |
| OF127          | 700,300 | 7,671,551 | 223 | 100         | -60 | 92.75       |  |  |
| OF128          | 700,276 | 7,671,552 | 221 | 120         | -60 | 92.75       |  |  |
| OF129          | 700,255 | 7,671,553 | 219 | 120         | -60 | 92.75       |  |  |
| OF131          | 700,283 | 7,671,501 | 222 | 120         | -60 | 92.75       |  |  |
| OF132          | 700,258 | 7,671,503 | 219 | 120         | -60 | 92.75       |  |  |
| OF133          | 700,238 | 7,671,504 | 218 | 120         | -60 | 92.75       |  |  |
| OF138          | 700,146 | 7,671,358 | 213 | 120         | -60 | 92.75       |  |  |
| OF139          | 700,106 | 7,671,360 | 212 | 120         | -60 | 92.75       |  |  |
| OF142          | 700,101 | 7,671,260 | 213 | 120         | -60 | 92.75       |  |  |
| OF143          | 700,061 | 7,671,262 | 212 | 120         | -60 | 92.75       |  |  |
| OF144          | 700,020 | 7,671,264 | 211 | 120         | -60 | 92.75       |  |  |
| OF147          | 700,056 | 7,671,162 | 213 | 120         | -60 | 92.75       |  |  |
| OF148          | 700,016 | 7,671,164 | 211 | 120         | -60 | 92.75       |  |  |
| OF149          | 699,976 | 7,671,166 | 209 | 120         | -60 | 92.75       |  |  |
| OF151          | 700,051 | 7,671,062 | 214 | 100         | -60 | 92.75       |  |  |
| OF152          | 700,011 | 7,671,064 | 210 | 100         | -60 | 92.75       |  |  |
| OF158          | 700,388 | 7,671,947 | 225 | 70          | -60 | 272.75      |  |  |
| OF159          | 700,366 | 7,671,948 | 227 | 60          | -60 | 272.75      |  |  |
| OF160          | 700,346 | 7,671,949 | 227 | 40          | -60 | 272.75      |  |  |
| OF161          | 700,382 | 7,671,894 | 227 | 70          | -60 | 272.75      |  |  |
| OF162          | 700,391 | 7,671,846 | 227 | 80          | -60 | 272.75      |  |  |
| OF163          | 700,396 | 7,671,794 | 228 | 90          | -60 | 272.75      |  |  |
| OF164          | 700,323 | 7,671,798 | 226 | 40          | -60 | 272.75      |  |  |
| OF164<br>OF166 | 700,323 | 7,671,744 | 229 | 90          | -60 | 272.75      |  |  |
| OF166<br>OF170 | 700,385 | 7,671,744 | 212 | 100         | -60 | 92.75       |  |  |
|                |         |           |     |             |     |             |  |  |
| OF171          | 700,334 | 7,671,698 | 228 | 50          | -90 | 0           |  |  |
| OF172          | 700,337 | 7,671,648 | 228 | 40          | -90 | 0           |  |  |
| OF202          | 700,237 | 7,671,579 | 220 | 120         | -90 | 0           |  |  |
| OF204          | 700,253 | 7,671,503 | 218 | 120         | -90 | 0           |  |  |
| OF206          | 700,195 | 7,671,577 | 221 | 120         | -90 | 0           |  |  |
| OF207          | 700,178 | 7,671,597 | 223 | 120         | -90 | 0           |  |  |

|                | 1                  | Collar                 |     |             | Orientation |         |  |
|----------------|--------------------|------------------------|-----|-------------|-------------|---------|--|
| Hole           | Easting            | Northing               | RL  | Total Depth | Dip         | Azimuth |  |
| OF220          | 700,340            | 7,671,821              | 228 | 30          | -60         | 272.75  |  |
| OF221          | 700,362            | 7,671,819              | 228 | 40          | -60         | 272.75  |  |
| OF222          | 700,339            | 7,671,774              | 229 | 30          | -60         | 272.75  |  |
| OF223          | 700,355            | 7,671,721              | 230 | 60          | -60         | 272.75  |  |
| OF224          | 700,358            | 7,671,773              | 230 | 60          | -60         | 272.75  |  |
| OF225          | 700,332            | 7,671,725              | 227 | 30          | -60         | 272.75  |  |
| OF226          | 700,347            | 7,671,873              | 229 | 30          | -60         | 276.75  |  |
| OF228          | 700,329            | 7,671,673              | 227 | 40          | -60         | 92.75   |  |
| OF229          | 700,314            | 7,671,674              | 225 | 60          | -60         | 92.75   |  |
| OF230          | 700,326            | 7,671,624              | 226 | 50          | -60         | 92.75   |  |
| OF231          | 700,311            | 7,671,624              | 223 | 65          | -60         | 92.75   |  |
| OF232          | 700,148            | 7,671,408              | 215 | 60          | -60         | 92.75   |  |
| OF233          | 700,093            | 7,671,286              | 213 | 70          | -90         | 0       |  |
| OF234          | 700,115            | 7,671,284              | 213 | 50          | -90         | 0       |  |
| OF235          | 700,130            | 7,671,284              | 213 | 40          | -90         | 0       |  |
| OF236          | 700,142            | 7,671,283              | 214 | 60          | -60         | 92      |  |
| OF240          | 700,375            | 7,671,820              | 228 | 70          | -60         | 272.75  |  |
| OF241          | 700,381            | 7,671,769              | 229 | 70          | -60         | 272.75  |  |
| OF242          | 700,375            | 7,671,719              | 229 | 70          | -60         | 272.75  |  |
| OF243          | 700,341            | 7,671,672              | 229 | 40          | -60         | 92.75   |  |
| OF245          | 700,159            | 7,671,607              | 224 | 100         | -90         | 0       |  |
| OF246          | 700,198            | 7,671,604              | 223 | 120         | -90         | 0       |  |
| OF247          | 700,209            | 7,671,553              | 220 | 140<br>100  | -90<br>-90  | 0       |  |
| OF248<br>OF250 | 700,124<br>700,087 | 7,671,535<br>7,671,361 | 218 | 100         | -90<br>-75  | 92.75   |  |
| OF251          | 700,087            | 7,671,336              | 212 | 120         | -90         | 0       |  |
| OF251          | 700,064            | 7,671,330              | 213 | 120         | -90         | 0       |  |
| OF253          | 700,063            | 7,671,285              | 213 | 120         | -90         | 0       |  |
| OF254          | 700,069            | 7,671,260              | 212 | 70          | -60         | 92.75   |  |
| OF255          | 700,000            | 7,671,265              | 211 | 80          | -60         | 92.75   |  |
| OF256          | 700,011            | 7,671,213              | 210 | 90          | -60         | 92.75   |  |
| OF258          | 700,110            | 7,671,407              | 214 | 120         | -90         | 0       |  |
| OF260          | 700,084            | 7,671,386              | 212 | 80          | -60         | 92.75   |  |
| OF262          | 700,029            | 7,671,312              | 212 | 50          | -60         | 92.75   |  |
| OF263          | 699,997            | 7,671,214              | 210 | 60          | -60         | 92.75   |  |
| OF264          | 700,078            | 7,671,161              | 215 | 40          | -60         | 92.75   |  |
| OF265          | 700,053            | 7,671,111              | 214 | 50          | -60         | 92.75   |  |
| OF266          | 700,110            | 7,671,408              | 214 | 80          | -73         | 92.75   |  |
| OF267          | 700,087            | 7,671,409              | 213 | 90          | -90         | 0       |  |
| OF41           | 700,287            | 7,671,565              | 222 | 40          | -60         | 92.75   |  |
| OF42           | 700,303            | 7,671,565              | 223 | 40          | -60         | 92.75   |  |
| OF43           | 700,314            | 7,671,564              | 224 | 45          | -60         | 272.75  |  |
| OF44           | 700,304            | 7,671,648              | 222 | 35          | -60         | 92.75   |  |
| OF45           | 700,313            | 7,671,650              | 222 | 35          | -60         | 92.75   |  |
| OF46           | 700,323            | 7,671,646              | 223 | 35          | -60         | 92.75   |  |
| OF47           | 700,336            | 7,671,649              | 225 | 20          | -60         | 92.75   |  |
| OF48           | 700,321            | 7,671,750              | 224 | 30          | -60         | 92.75   |  |
| OF50           | 700,341            | 7,671,749              | 224 | 30          | -60         | 272.75  |  |
| OF51           | 700,323            | 7,671,847              | 223 | 35          | -60         | 96.75   |  |
| OF52           | 700,326            | 7,671,850              | 224 | 30          | -60         | 92.75   |  |
| OF53           | 700,346            | 7,671,849              | 226 | 35          | -60         | 272.75  |  |
| OF56           | 700,162            | 7,671,559              | 222 | 100         | -90         | 0       |  |
| OF57           | 700,161            | 7,671,538              | 221 | 100         | -90         | 0       |  |
| OF58           | 700,186            | 7,671,556              | 226 | 138         | -90         | 0       |  |
| OF59           | 700,209            | 7,671,554              | 223 | 144         | -60         | 272.75  |  |
| OF60           | 700,177            | 7,671,534              | 221 | 114         | -90         | 0       |  |
| OF61           | 700,216            | 7,671,531              | 219 | 126         | -60         | 272.75  |  |
| OF63           | 700,227            | 7,671,576              | 222 | 131.8       | -60         | 272.75  |  |
| OF64           | 700,163            | 7,671,514              | 220 | 118         | -90         | 0       |  |
| OF72           | 700,361            | 7,671,848              | 228 | 66          | -60         | 272.75  |  |

| Collar  |         |           |     |             | Orie | Orientation |  |
|---------|---------|-----------|-----|-------------|------|-------------|--|
| Hole    | Easting | Northing  | RL  | Total Depth | Dip  | Azimuth     |  |
| OFRB269 | 700,015 | 7,671,239 | 211 | 60          | -60  | 92.75       |  |
| OFRB270 | 700,030 | 7,671,239 | 211 | 70          | -60  | 92.75       |  |
| OFRB272 | 699,992 | 7,671,191 | 210 | 70          | -60  | 92.75       |  |
| YTP10   | 700,093 | 7,671,312 | 212 | 70          | -90  | 0           |  |
| YTP11   | 700,103 | 7,671,311 | 212 | 60          | -90  | 0           |  |
| YTP12   | 700,113 | 7,671,310 | 212 | 60          | -90  | 0           |  |
| YTP13   | 700,123 | 7,671,309 | 212 | 60          | -90  | 0           |  |
| YTP14   | 700,135 | 7,671,309 | 212 | 60          | -90  | 0           |  |
| YTP15   | 700,126 | 7,671,357 | 212 | 60          | -90  | 0           |  |
| YTP16   | 700,136 | 7,671,356 | 212 | 60          | -90  | 0           |  |
| YTP17   | 700,146 | 7,671,355 | 213 | 60          | -90  | 0           |  |
| YTP18   | 700,127 | 7,671,385 | 213 | 70          | -90  | 0           |  |
| YTP19   | 700,137 | 7,671,384 | 213 | 60          | -90  | 0           |  |
| YTP20   | 700,147 | 7,671,383 | 213 | 60          | -90  | 0           |  |
| YTP21   | 700,157 | 7,671,383 | 214 | 60          | -90  | 0           |  |
| YTP22   | 700,201 | 7,671,556 | 220 | 133         | -60  | 271         |  |
| YTP23   | 700,086 | 7,671,360 | 212 | 60          | -90  | 0           |  |
| YTP24   | 700,075 | 7,671,360 | 212 | 60          | -90  | 0           |  |
| YTP25   | 700,066 | 7,671,360 | 212 | 150         | -90  | 0           |  |
| YTP26   | 700,056 | 7,671,361 | 212 | 70          | -90  | 0           |  |
| YTP28   | 700,225 | 7,671,654 | 223 | 130         | -60  | 270         |  |
| YTP3    | 700,095 | 7,671,338 | 212 | 70          | -90  | 0           |  |
| YTP33A  | 700,190 | 7,671,657 | 223 | 100         | -60  | 271.5       |  |
| YTP34   | 700,180 | 7,671,555 | 220 | 90          | -60  | 276         |  |
| YTP35   | 700,181 | 7,671,456 | 216 | 70          | -90  | 0           |  |
| YTP36   | 700,111 | 7,671,460 | 215 | 131.8       | -90  | 0           |  |
| YTP37   | 700,151 | 7,671,456 | 216 | 70          | -90  | 0           |  |
| YTP4    | 700,105 | 7,671,337 | 212 | 70          | -90  | 0           |  |
| YTP5    | 700,115 | 7,671,336 | 212 | 60          | -90  | 0           |  |
| YTP6    | 700,125 | 7,671,335 | 212 | 60          | -90  | 0           |  |
| YTP7    | 700,135 | 7,671,335 | 212 | 60          | -90  | 0           |  |
| YTP8    | 700,145 | 7,671,334 | 212 | 60          | -90  | 0           |  |
| YTP9    | 700,155 | 7,671,334 | 213 | 60          | -90  | 0           |  |