

## High-Grade Nickel Sulphides Confirmed at the Dogleg Ni-Cu-Co Prospect, West Kimberley Project, Western Australia

- Assay results returned from first diamond drillhole at the Dogleg Prospect:
  - 13.85 m (True Width 13.24 m) at 4.35% Ni, 0.34% Cu, 0.15% Co from 177.34 m, Including:
    - 5.86 m (True Width 5.60 m) at 7.47% Ni, 0.31% Cu, 0.25% Co from 179.08 m
- Downhole electromagnetic (DHEM) survey completed on 23WKDD004 shows strong in-hole response and provides additional focus outside the original moving-loop electromagnetic (MLEM) conductor for potential follow-up drilling.
- Assay results expected on the second hole (23WKDD004) in 3-7 weeks with a program of work and future drill testing at Dogleg to be planned post assays.
- This result triggers \$500k payment to Buxton from JV partner IGO adding to the \$2.35M at the end of last quarter (see ASX announcement 31 October 2023)

**Buxton Resources CEO Marty Moloney commented:** *"The Buxton and IGO technical teams are extremely excited to report high grade nickel and cobalt mineralisation in sulphides from the first diamond hole at the Dogleg Prospect within our West Kimberley Project JV.*

*This result, along with previous exploration success at the Merlin Prospect, validates our view that the West Kimberley Project has the potential to host Nova-Bollinger style nickel sulphide deposits. Such deposits are notoriously difficult to find but the success of the first two diamond holes at Dogleg, combined with highly anomalous down-hole EM responses, provide Buxton and our JV partner IGO with enormous encouragement.*

*We look forward to reporting the assays from the second hole in this program and hope to build on this momentum with future drilling programs designed to fully reveal the emerging exploration potential at Dogleg".*



Buxton Resources (ASX:BUX) is pleased to announce that assay results have been received for the first hole (23WKDD003) drilled into the Dogleg Prospect by joint venture partner IGO Limited (ASX:IGO). Assay results have established the high-grade nature of the massive sulphides at the Dogleg Ni-Cu-Co Prospect that lie within a broader zone of low-to-moderate grade mineralisation (Table 1).

The assays support the sulphide mineralisation species logged in the drill hole as being a combination of pyrrhotite, pentlandite and chalcopyrite (Figure 1 - refer to BUX ASX announcement 4th October 2023). No other deleterious elements have been noted.

**Table 1:** Dogleg Prospect Significant Drill Intersections. Relationship of intercept length to estimated true width is 95.6% for 23WKDD003.

Hole ID	Note	Intercept (m)			Estimated True Width (m)	Assay Results		
		From	To	Length		Ni (pct)	Cu (pct)	Co (pct)
23WKDD003		177.34	191.19	13.85	13.24	4.35	0.34	0.15
	<i>includes</i>	179.08	184.94	5.86	5.60	7.47	0.31	0.25



**Figure 1:** 23WKDD003 at 179.1 m - massive sulphide mineralisation with visually logged Ni and Cu sulphides (refer to BUX ASX announcement 4th October 2023).



### Conditional Payments Pertaining to these Reported Drill Results

The reported drill intercept from 23WKDD003, satisfies the criteria (i.e., identification of intercept with  $\geq 20\%$  m Ni) for deal structures (for the Quick Shears Project) with New World Cobalt Limited (readers are referred to ASX:BUX announcement on the 6<sup>th</sup> November 2018 for further information) and IGO Limited (readers are referred to ASX:BUX announcement on the 2<sup>nd</sup> October 2019) for the following conditional payments (within 5- business days of this release):

- Buxton Resources issues New World Cobalt Limited additional shares equal to \$250,000.
- IGO Limited pays Buxton Resources a cash payment of \$500,000.

### About the Dogleg Prospect and Latest DHEM Results

The Dogleg Prospect (Figure 2) is located within tenement E04/1972 of the Quick Shears Project (E04/1972, E04/2314, and E04/2423), targeting Nova-style magmatic Ni-Cu sulphide mineralisation in the Proterozoic belt of the West Kimberley Region of Western Australia.

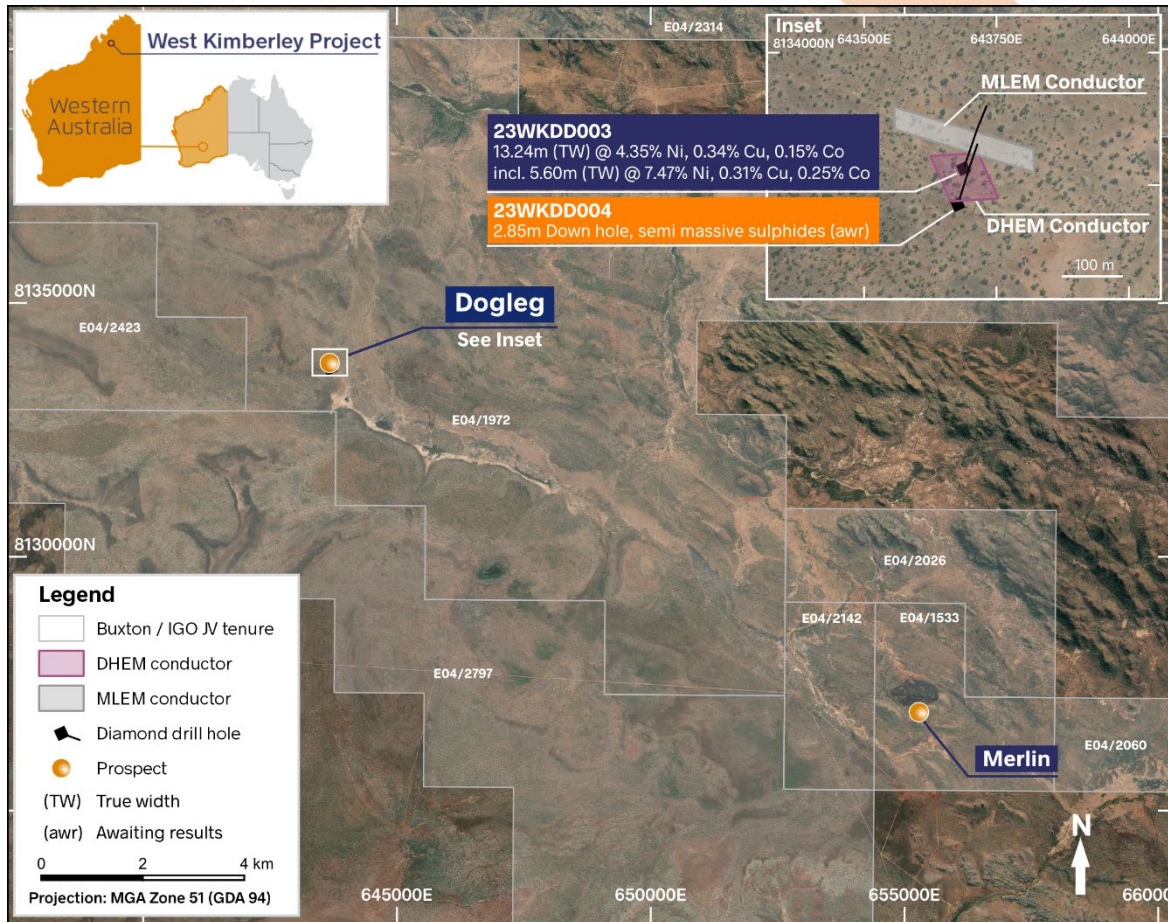
The Dogleg Prospect was originally identified as an area of interest, based on the interpretation of magnetic data suggesting it being in an analogous position to the magnetic features that are associated with the Merlin Ni-Cu-Co Prospect.

A moving-loop electromagnetic (MLEM) geophysical survey was undertaken over the magnetic features at Dogleg in 2022 identifying a 280 x 75 m, 12,000 Siemen conductor (refer to BUX ASX announcement 14<sup>th</sup> September 2023).

An initial drilling program, consisting of a single diamond drillhole, targeted this conductor. This hole, 23WKDD003, intersected massive sulphides from 179.06 m, within a broader intersection of disseminated sulphide mineralisation (refer to BUX ASX announcement 4th October 2023).

This sulphide mineralisation is hosted in the Ruins Dolerite, which sits within a similar package of quartz-muscovite bearing metasediments of the Marboo Formation to Merlin. A second hole (23WKDD004) was drilled 65 m down-plunge (pierce point) of 23WKDD003, and outside the area of the original MLEM conductor (Figure 3 and Figure 4). This drillhole intersected 2.85 m (downhole length) of semi-massive ( $>60\%$ ) sulphide mineralisation (refer to BUX ASX announcement 19th October 2023). Assay results are expected from this drillhole in the next 3-7 weeks.

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**Figure 2:** Location of Dogleg Prospect in relation to the Merlin Ni-Cu-Co Prospect.

Downhole surveying of drillholes 23WKDD003 and 23WKDD004 both show strong in-hole responses from sulphide mineralisation immediately surrounding the drill holes. As such, the effectiveness of the DHEM technique to see away from the holes is limited in terms of both strike and plunge. Combined interpretation of the DHEM data does suggest a potential extension of the MLEM conductor down-plunge.

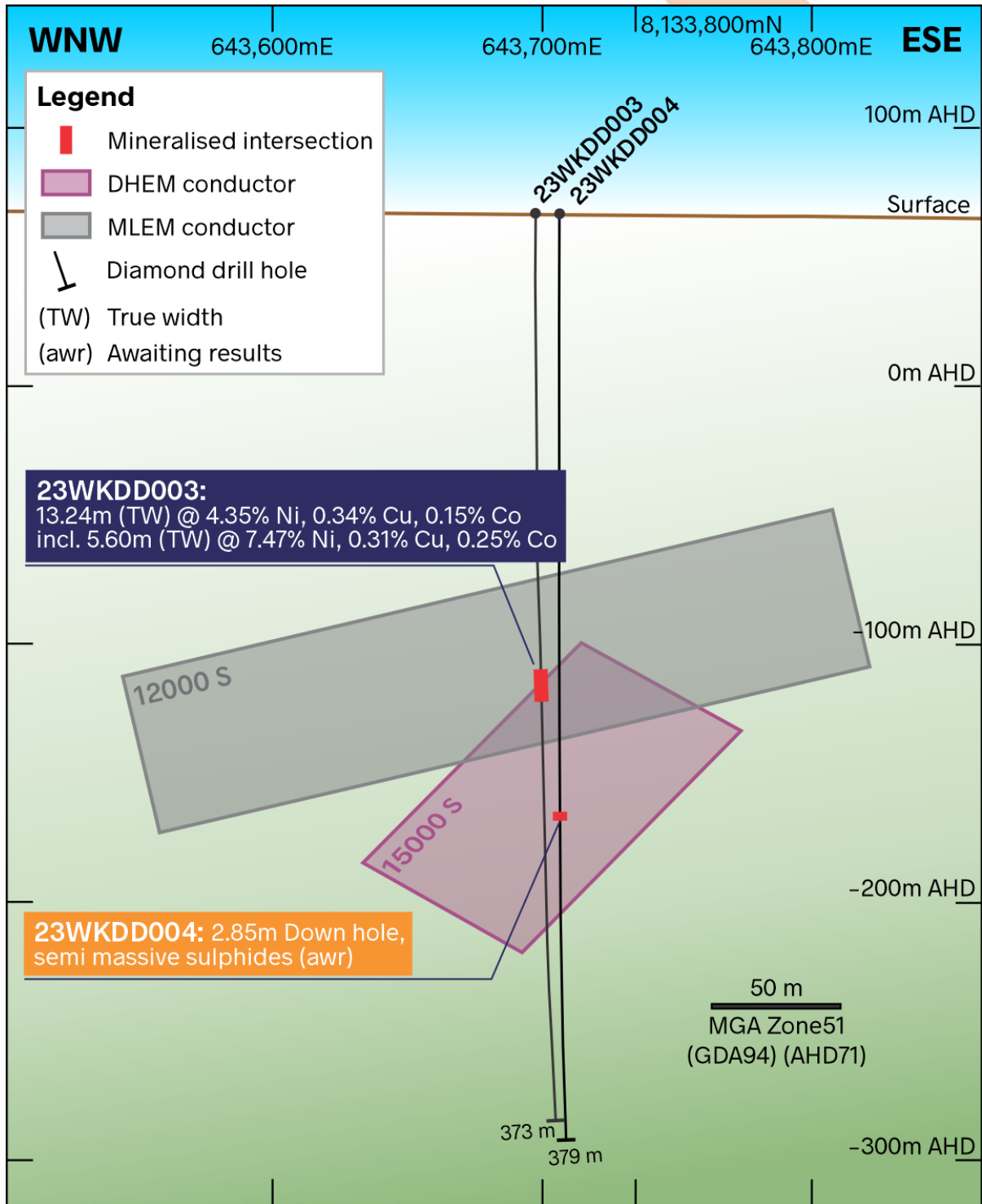
Modelling of the combined DHEM surveys has produced a 15,000 Siemen conductor with dimensions of 100 m x 125 m, which supersedes the DHEM conductor previously announced (refer to BUX ASX announcement 19th October 2023) but does not supersede the original MLEM conductor (Figure 3 and Figure 4).

### Moving Forward

- Lab assay results expected from 23WKDD004 in 3-7 weeks.
- After lab results are received from 23WKDD004, a program of works will be defined that may include further drill testing of the Dogleg Prospect in 2024.



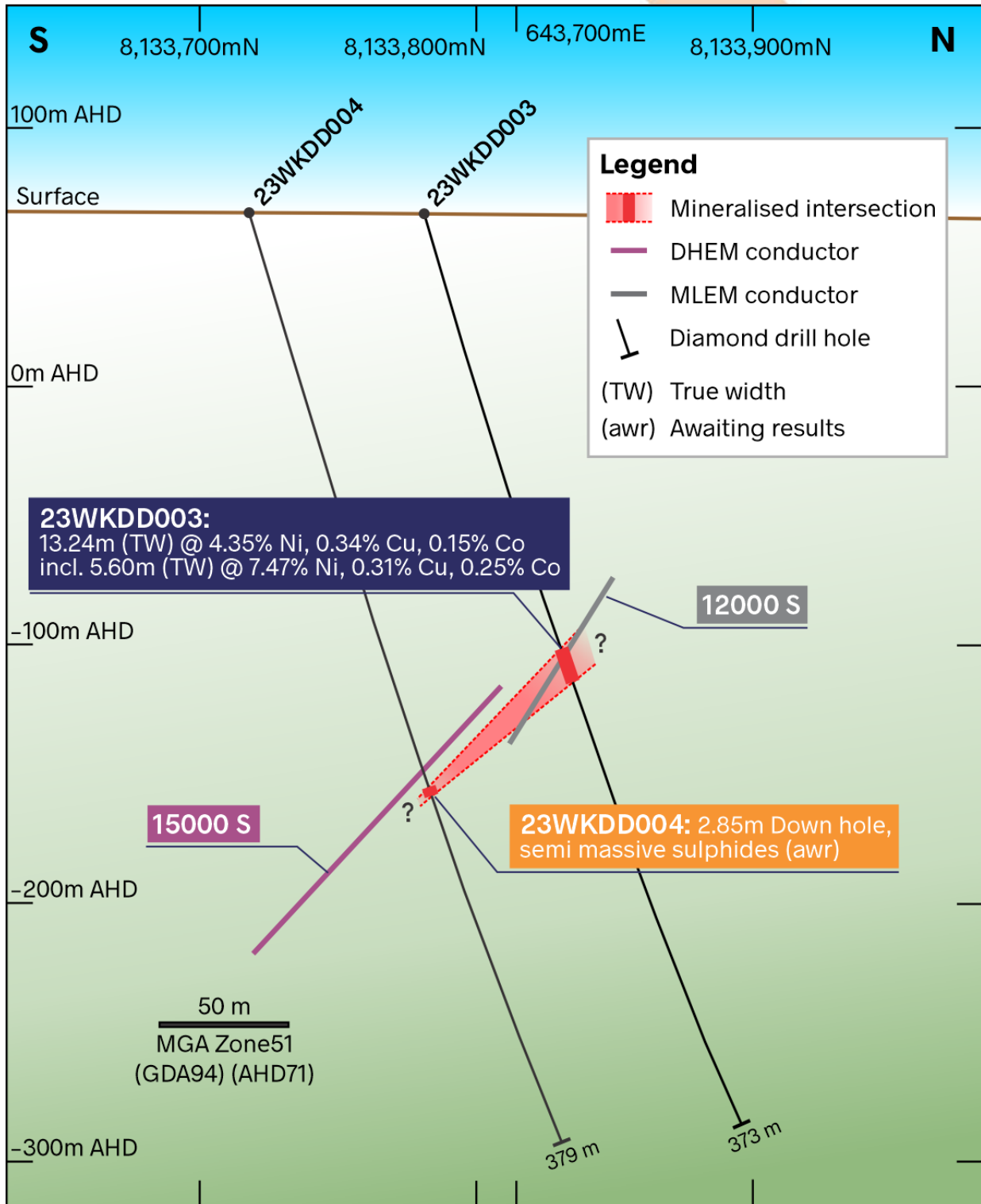
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**Figure 3:** Long Section showing the Dogleg MLEM and DHEM conductors, diamond drillhole traces of 23WKDD003 and 23WKDD004, intersected sulphide mineralisation with assays reported here from 23WKDD003, and previously reported sulphide mineralisation intersected by 23WKDD004 (refer to BUX ASX announcement 19th October 2023).



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**Figure 4:** North-South Section showing the Dogleg MLEM and DHEM conductors, diamond drillhole traces of 23WKDD003 and 23WKDD004, intersected sulphide mineralisation with assays reported here from 23WKDD003, and previously reported intersected sulphide mineralisation intersected by 23WKDD004 (refer to BUX ASX announcement 19th October 2023).

This release is authorised by the Board.

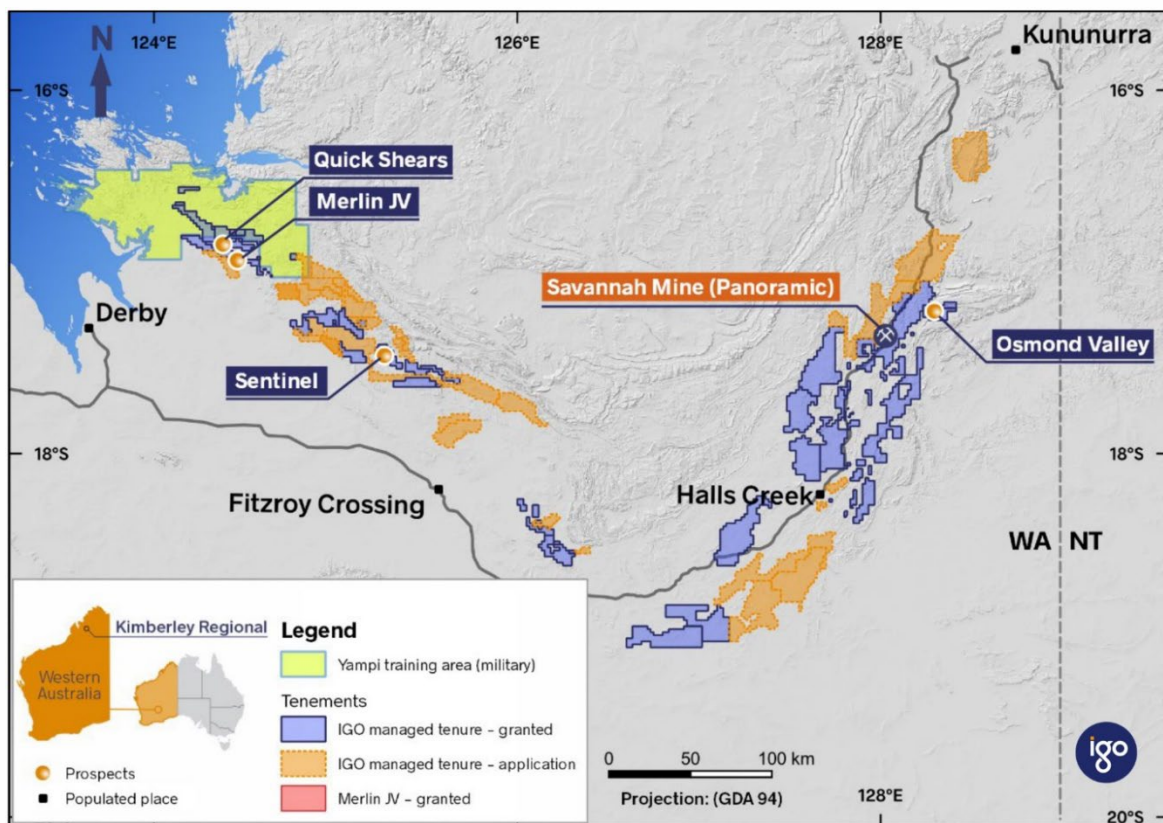
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### About the West Kimberley JV Projects

The West Kimberley Project (Figure 5) is targeting Nova-style magmatic Ni-Cu-Co sulphide mineralisation in Proterozoic belts of the West Kimberley Region of Western Australia. On the 10<sup>th</sup> August 2015 Buxton announced the discovery of high tenor magmatic sulphide mineralisation in hole DMRC003 at the Merlin Prospect. After additional technical work including substantial drilling programs Buxton secured an Earn-In and Joint Venture agreement with IGO Limited whereby IGO could earn up to 70% in the Double Magic Project tenements for \$8M over 4 years. Buxton now have Farm-In and JV agreements over three separate Project areas (Merlin / Double Magic Project, Quick Shears Project and West Kimberley Regional Project) which fall within the overall BUX/IGO West Kimberley JV Projects Area of Interest. On the 4<sup>th</sup> October 2022 Buxton received shareholder approval for Buxton and IGO to amend the existing Merlin Project Joint Venture in the West Kimberley (then at IGO 51% and BUX 49% ownership level) allowing IGO to earn a further 29% interest to take IGO to 80% for a cash payment to Buxton of \$1,000,000.



**Figure 5:** Location of BUX / IGO West Kimberley JVs (Quick Shears JV, Merlin / Double Magic JV and the West Kimberley Regional JV).

## Competent Persons

Information in this report that relates to Exploration Results for the Quick Shears Project is based on information compiled by Dr Ben Cave, who is a Member of Australasian Institute of Mining and Metallurgy (MAusIMM; 318334). Dr Cave has sufficient experience relevant to the style of mineralisation and type of deposit under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Cave is a full-time employee of IGO Ltd and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. Information in this report that relates to previously reported Exploration Results has been cross-referenced in this report to the date that it was reported to ASX. Buxton Resources confirms that it is not aware of any new information or data that materially affects information included in the relevant market announcements.

## References to Previous Results

There is information in this announcement relating to exploration results previously announced on:

- 1) 10 August 2015 - [New Nickel Copper Discovery at Double Magic Ni-Cu Project](#)
- 2) 6 November 2018 - [Buxton Acquires Large Land Holding Adjacent to Merlin, Double Magic](#)
- 3) 2 October 2019 - [West Kimberley JV Restructure](#)
- 4) 14 September 2023 - [Drilling commences at the Double Magic Project](#)
- 5) 4 October 2023 - [Massive Sulphides at Dogleg Ni-Cu-Co Prospect](#)
- 6) 19 October 2023 - [Second Hole Intersects Semi-Massive Sulphides at Dogleg Ni-Cu-Co Prospect](#)

Buxton Resources Ltd confirms that it is not aware of any new information or data that materially affects the information included in this announcement or the announcement referenced above.





**JORC CODE, 2012 EDITION: SECTION 1 – KIMBERLEY – SAMPLING TECHNIQUES AND DATA**

JORC Criteria	Explanation
Sampling techniques	<p><b>Drilling</b></p> <ul style="list-style-type: none"> <li>Diamond core drilling was completed using standard industry best practice.</li> <li>Reported results are from diamond drilling with core samples taken from halved or quartered (for duplicate samples) NQ2 core.</li> <li>Sample intervals were determined according to the geology logging of the drill core.</li> <li>Further information about the diamond drill holes is detailed in the following subsections.</li> </ul> <p><b>Assay</b></p> <p>Sample preparation was undertaken at ALS Limited – Perth and details of the methodology and QA/QC provided in the following subsections.</p> <p><b>DHEM</b></p> <ul style="list-style-type: none"> <li>Down-hole Electromagnetic (DHEM) surveying was undertaken on 23WKDD004 by IGO's in-house geophysical crews, using the following configuration/parameters:</li> </ul> <p>Configuration: Down-hole EM (DHEM)            Receiver: Digital Atlantis (A, U, V)            Transmitter: DRTX-e            Loop-Size: 400 m x 400 m            Current: 60A            Station Spacing: 5-10 m            Base Frequency: 0.5-0.25Hz</p> <ul style="list-style-type: none"> <li>DHEM surveys are an industry standard practice in testing the presence of bedrock conductors potentially representing mineralised sulphide bodies.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>Diamond drillholes were drilled by truck mounted rigs owned and operated by Westcore.</li> <li>Holes were collared from surface with PQ-core (85mm inside diameter) and the diameter decreased to HQ-core (63.5mm inside diameter), and NQ2-core (50.6 mm inside diameter) at depths directed by the geologists.</li> <li>The reported drill hole was drilled to a depth directed by IGO geologists.</li> <li>All NQ core was orientated using a REFLEX ACT III orientation tool.</li> </ul>
Drill sample recovery	<ul style="list-style-type: none"> <li>Sample recovery for core loss is recorded by the drillers with any core loss intervals noted on annotated wooden blocks inserted into the core boxes by the driller.</li> <li>Rod counts are routinely carried out and marked on the core blocks by the drillers to ensure the marked core block depths are accurate.</li> <li>Full assessment of recovery and orientation of drillcore was conducted at IGO's core processing facility in Broome, with QA/QC of the recovery assessed by reconstructing the core into continuous runs in an angle iron cradle.</li> <li>No core loss is recorded in the reported mineralised interval.</li> </ul>
Logging	<ul style="list-style-type: none"> <li>Qualitative logging of DD core included lithology, mineralogy, mineralisation, weathering, colour and other features of the samples.</li> <li>DD core was additionally logged in a quantitative manner in terms of structure and geotechnical parameters.</li> <li>The total lengths of all drill holes have been logged (unless stated otherwise).</li> </ul>

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JORC Criteria	Explanation
	<ul style="list-style-type: none"> <li>Photographs of all DD trays are taken and retained on file with the original core trays stored in the core library.</li> <li>The logging is considered adequate to support downstream exploration studies and follow-up drilling.</li> </ul>
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>DD core was generally subsampled into half-core using an automated wet-diamond-blade core saw. Lengths of cut intervals submitted for assay were between 0.3 and 1 m. All samples submitted for assay were selected from the same side of the core. Exceptions were for duplicate samples of selected intervals, where quarter-core subsamples were cut from the half-core.</li> <li>Sample intervals were determined according to the geology logging of the drill core.</li> <li>The sample sizes are appropriate to the grain size of the material being sampled.</li> <li>The primary tool used to ensure representative drill core assays was monitoring and ensuring near 100% core recovery.</li> <li>The nature of the drilling method means representation is investigative with sampling aimed at finding anomalous concentrations rather than absolute values for MRE work.</li> <li>Sample preparation was undertaken at ALS Limited – Perth. ALS Limited – Perth:               <ul style="list-style-type: none"> <li>Prepares each sample by oven drying 2.5 to 3kg of material for 12 hours at 100°C (DRY-21). Samples are then crushed in a jaw-crusher to 70% passing 6 mm (CRU-21). The entire sample is then pulverized in LM5 grinding robotic mills with low Cr-steel pulverising bowls (particle size distribution (PSD) target of 85% passing 75 micron;PUL-32). A 300g master pulp is collected for analysis, with the remaining "reject" pulp being retained in storage.</li> <li>Quality control procedures involve insertion of certified reference materials (OREAS 85 and OREAS 86), blanks, and collection of duplicates at the pulverisation stage.</li> <li>The results of quality control sampling are consistent with satisfactory sampling precision.</li> <li>The nature, quality, and sample preparation technique are considered appropriate for the style of mineralisation submitted for assay.</li> </ul> </li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>No geophysical tools were used to determine any element concentrations for reported intervals.</li> <li>ALS laboratories, Perth complete pulveriser size checks every 50th sample to ensure particle size distribution compliance as part of routine internal quality procedures to ensure the target PSD of 85% passing 75 µm is achieved.</li> <li>Field duplicates, CRMs and blanks were routinely inserted at frequencies between 1:10 and 1:20 samples for DD sample streams.</li> <li>Laboratory quality control processes include the use of internal lab standards using certified reference materials (CRMs) and duplicates.</li> <li>Certified reference materials (OREAS 85 and OREAS 86) were used to monitor accuracy and have expected values ranging from low to high grade. These were inserted randomly into the routine sample stream to the laboratory. Nickel, Cu, Co, Cr, and Mg were consistently checked for accuracy.</li> <li>The results of the CRMs confirm that the laboratory sample assay values have good precision and accuracy. The results of blank assays indicate that any potential sample cross contamination has been minimised.</li> <li>Following sample preparation, samples were analysed by:               <ul style="list-style-type: none"> <li>Four- acid digestion, with inductively coupled plasma spectroscopy (ICP-MS) finish (ME-MS61r) for Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, S, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr.</li> </ul> </li> </ul>

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JORC Criteria	Explanation
	<ul style="list-style-type: none"> <li>- The digestion method can be considered near total for all elements.</li> <li>- Loss on ignition (LOI) was determined by robotic thermo gravimetric analysis at 1000°C (ME-GRA05).</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>• Significant intersections were checked by senior IGO geological personnel.</li> <li>• Only two holes have been completed at the Dogleg Prospect; there are no twinned or scissor holes.</li> <li>• The logging has been validated by an IGO on-site geologist and compiled onto the IGO acQuire SQL drill hole database by IGO's Geological Database Administrator.</li> <li>• Assay data are imported directly from digital assay files from contract analytical company ALS (Perth) and are merged in the Company acQuire SQL drill hole database by IGO's Geological Database Administrator.</li> <li>• Data is backed up regularly in off-site secure servers.</li> <li>• No geophysical or portable XRF results are used in exploration results reported.</li> <li>• There have been no adjustments to the assay data.</li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>• The surface hole collar location was surveyed using a handheld Garmin GPS unit and averaging for 90 seconds with an expected accuracy of ±6m for easting and northing with elevation also recorded.</li> <li>• Drill path gyroscopic surveys were at 0m and at subsequent 18m downhole intervals to final hole depth using a Reflex Gyro Omni tool.</li> <li>• The grid system is GDA94/MGA Zone 51 using AHD for elevation.</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>• Two diamond drillholes have been completed to date at Dogleg Prospect. The first hole (23WKDD003) intersected the middle of the modelled moving-loop electromagnetic (MLEM) conductor. The Second drillhole (23WKDD004) was drilled 60 m down-plunge of the first drillhole and intersected the bottom third of the modelled downhole electromagnetic (DHEM) conductor, which was outside of the original MLEM modelled conductor.</li> <li>• Data spacing and distribution are not considered sufficient to establish the degree of geological and grade continuity appropriate for Mineral Resource and Ore Reserve estimation.</li> <li>• All samples have been composited using length-weighted intervals for Public Reporting.</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>• Drilling was undertaken perpendicular to the angle of the interpreted strike and dip of the modelled MHEM and DHEM conductors. The true thickness is estimated to be 95.6% for 23WKDD003 and 91.0% for 23WKDD004. Downhole thickness is estimated using the dip and orientation of the drillholes from survey data and measured dip and orientation of the target geology.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>• The chain-of-sample custody is managed by IGO staff from collection at the rig to the submission of the samples to ALS Limited – Perth for analysis.</li> <li>• Samples were stored at the drill site before being transported and processed (cut) at IGO's core processing facility in Broome.</li> <li>• Samples were placed in pre-numbered calico bags and further secured in sample bags with cable ties. The samples are further secured in a bulk bag and delivered to the ALS -Perth by contractor Bishops Transport.</li> <li>• A sample reconciliation advice is sent by the ALS-Perth to IGO's Geological Database Administrator on receipt of the samples.</li> <li>• Any inconsistencies between the despatch paperwork and samples received is resolved with IGO before sample preparation commences.</li> <li>• Sample preparation and analysis is completed only at ALS-Perth.</li> <li>• The risk of deliberate or accidental loss or contamination of samples is considered very low.</li> </ul>

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JORC Criteria	Explanation
Audits or reviews	<ul style="list-style-type: none"><li>No specific external audits or reviews have been undertaken.</li></ul>

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**JORC CODE, 2012 EDITION: SECTION 2 – KIMBERLEY– EXPLORATION RESULTS**

JORC CRITERIA	EXPLANATION
<p><b>Mineral tenement and land tenure status</b></p>	<ul style="list-style-type: none"> <li>• Dogleg Prospect is located within WA Exploration Lease E04/1972, covering 157Km<sup>2</sup> which is part of the Quick Shears Project.</li> <li>• The Quick Shears Project consists of 3 granted exploration licences (E04/1972, E04/2314 &amp; E04/2423).</li> <li>• Buxton Resources acquired the Quick Shears Project from New World Cobalt in 2018 (readers are referred to ASX:BUX announcement on the 6 November 2018 for further information). This transaction was comprised of an initial issue of 1,333,333 fully paid ordinary shares in Buxton Resources, and 3 deferred issues of fully paid ordinary shares (equal to the \$1,000,000) in Buxton Resources, conditional upon satisfaction of milestones as set out below:             <ul style="list-style-type: none"> <li>■ Within 5 days of Buxton Resources announcing it has intersected in drilling on the Quick Shears Project, on a grade-thickness basis, &gt;20% Ni equivalent, providing the grade of the mineralisation intersected is &gt;1.5% Ni equivalent (e.g., ≥10m @2.0% Ni, or ≥13.33m @ 1.5%Ni). The issue of an additional number of Buxton Resources shares equal to \$250,000.</li> <li>■ Within 5 days of Buxton Resources announcing it has a JORC compliant resource (inferred, indicated and/or measured; of any size and/or grade; for any commodity) within the Project Tenements. The issue of an additional number of Buxton Resources shares equal to \$250,000.</li> <li>■ Within 5 days of Buxton Resources announcing it has a JORC compliant resource that exceeds 15,000 tonnes of contained nickel equivalent within the Project Tenements. The issue of an additional number of Buxton Resources shares equal to \$500,000.</li> </ul> <p>In each case the number of Shares to be issued to New World will be based on the 10-days VWAP prior to the date on which each relevant milestone is met.</p> <ul style="list-style-type: none"> <li>- Under this arrangement, Buxton were able to acquire:             <ul style="list-style-type: none"> <li>■ 100% interest in E04/2423; and</li> <li>■ 80% interest in E04/1972 and E04/2314. With Timothy Tatterson holding the remaining (20%) interest.</li> </ul> </li> <li>• IGO entered into an agreement with Buxton Resources in relation to the Quick Shears Project (readers are referred to ASX:BUX announcement on the 2 October 2019 for further information). Under this agreement:             <ul style="list-style-type: none"> <li>- IGO manages exploration.</li> <li>- Buxton Resources is free carried until completion of a feasibility study and Timothy Tatterson is free carried until a decision to mine (in respect of his interest in E04/1972 and E04/2314).</li> <li>- Buxton Resources is to be paid 3 deferred cash payments of \$500,000 each, conditional upon satisfaction of milestones as set out below (being total deferred payments of up to \$1,500,000):             <ul style="list-style-type: none"> <li>■ the first time IGO or its subsidiaries identifies that it has intersected in drilling on the Project Tenements, on a grade-thickness basis, ≥20% Ni equivalent provided the grade of the mineralisation intersected is ≥1.5% Ni equivalent (e.g., ≥10m @2.0% Ni, or ≥13.33m @ 1.5%Ni). Ni equivalent is to be based on the spot price for the relevant metals as published by the London Metals Exchange (LME) on the date of the relevant calculation.</li> <li>■ the first time IGO or its subsidiaries identifies a JORC compliant resource (inferred, indicated and/or measured; of any size and/or grade; for any commodity) within the Project Tenements.</li> <li>■ the first time IGO or its subsidiaries identifies a JORC compliant resource that exceeds 15,000 tonnes of contained nickel equivalent within the Project Tenements. Contained nickel equivalent is to be calculated based on the spot price for the relevant metal as published by the LME on the date of the relevant calculation.</li> </ul> </li> </ul> </li> <li>• For clarity, the interests in E04/1972 and E04/2314 are held IGO (64%), Buxton Resources (16%), Timothy Tatterson (20%). The interests in E04/2423 are held IGO (80%) and Buxton Resources (20%).</li> </ul> </li></ul>
<p><b>Exploration done by other parties</b></p>	<ul style="list-style-type: none"> <li>• Historical exploration (prior to Buxton Resources involvement) on the Quick Shears tenements was limited to a single phase of work conducted by Ram Resources Limited (ASX:RMR) during the period 2015- 2016. This comprised a helicopter EM survey (VTEM), ground EM and three diamond drill holes on E04/1972.</li> </ul>
<p><b>Geology</b></p>	<ul style="list-style-type: none"> <li>• The regional geology setting is a low-grade metamorphic terrane in the Wunaamin-Miliwundi Orogeny of WA.</li> <li>• Mafic to ultramafic intrusions have intruded a metasedimentary package within the belt and are the hosts to the Ni-Cu mineralisation.</li> <li>• The deposits are analogous to many mafic-ultramafic hosted orthomagmatic Ni-Cu deposits worldwide.</li> </ul>

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**JORC CODE, 2012 EDITION: SECTION 2 – KIMBERLEY– EXPLORATION RESULTS**

JORC CRITERIA	EXPLANATION																					
	<ul style="list-style-type: none"> <li>The sulphide mineralisation is interpreted to be related to the intrusive event with mineralisation occurring in several styles including massive, network texture, and disseminated sulphides. The main sulphide mineral is pyrrhotite (barren), with lesser amounts of nickel sulphides (pentlandite) and copper sulphides (chalcopyrite).</li> <li>The region is considered by Buxton and IGO to have the potential to host mafic or ultramafic intrusion related Ni-Cu-Co deposits based on Buxton's discovery of the Merlin Prospect.</li> </ul>																					
<b>Drill hole Information</b>	<table border="1"> <thead> <tr> <th>Hole ID</th> <th>Easting (m)</th> <th>Northing (m)</th> <th>RL (m)</th> <th>Dip (°)</th> <th>Azimuth (°)</th> <th>EOH (m)</th> </tr> </thead> <tbody> <tr> <td>23WKDD003</td> <td>643688</td> <td>8133781</td> <td>67</td> <td>-73</td> <td>020</td> <td>373</td> </tr> <tr> <td>23WKDD004</td> <td>643677</td> <td>8133713</td> <td>67</td> <td>-73</td> <td>020</td> <td>379</td> </tr> </tbody> </table> <p>Drill Collar Data (GDA94 MGA Zone 51; RL AHD)</p>	Hole ID	Easting (m)	Northing (m)	RL (m)	Dip (°)	Azimuth (°)	EOH (m)	23WKDD003	643688	8133781	67	-73	020	373	23WKDD004	643677	8133713	67	-73	020	379
Hole ID	Easting (m)	Northing (m)	RL (m)	Dip (°)	Azimuth (°)	EOH (m)																
23WKDD003	643688	8133781	67	-73	020	373																
23WKDD004	643677	8133713	67	-73	020	379																
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>No capping or top-cutting of high grades were undertaken.</li> <li>The intercepts are calculated on a length weighted basis.</li> </ul>																					
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>Drilling was undertaken perpendicular to the angle of the interpreted strike and dip of the modelled MHEM and DHEM conductors. The true thickness is estimated to be 95.6% for 23WKDD003 and 91.0% for 23WKDD004. Downhole thickness is estimated using the dip and orientation of the drillholes from survey data and measured dip and orientation of the target geology.</li> </ul>																					
<b>Balanced Reporting</b>	<ul style="list-style-type: none"> <li>The exploration results reported here give the best and most balanced view of the undertaken works from available data.</li> <li>Assay results from the second drill hole (23WKDD004; BUX ASX announcement 19<sup>th</sup> October, 2023) are expected in 3-7 weeks, once these results are received, they will be presented to the market.</li> </ul>																					
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>Visual results for the second hole (23WKDD004) have previously been reported in BUX ASX announcement 19<sup>th</sup> October, 2023.</li> <li>All meaningful data available has been included.</li> </ul>																					
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>A representative cross section and long section is shown in the main body of this Public Report, this highlights the reported assay results reported here for 23WKDD003 and the previously reported visual sulphide intersection in 23WKDD004. These are also shown on a plan map in the main body of the Public Report. DHEM and MLEM conductors are shown as are drill collar positions.</li> </ul>																					
<b>Further work</b>	<ul style="list-style-type: none"> <li>Lab assay results are expected from 23WKDD004 in 3-7 weeks.</li> <li>After lab results are received from 23WKDD004, a program of works will be defined for 2024 that may include further drill testing of the Dogleg Prospect in 2024.</li> </ul>																					

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