



## Diamond drilling assays confirm extensions and new nickel-copper mineralisation at Akelikongo

*“Eastern Zone” mineralisation intersected in several holes providing direction for ongoing exploration activity under Rio Tinto JV with prospectivity of regional intrusions also confirmed*

### Highlights

- 10 diamond holes for 4,083m were drilled project-wide under the Rio Tinto JV to date, including 5 holes at Akelikongo.
- Assays confirm extensions of the Akelikongo “main” western body of mineralisation in AKD019 and the delineation of an emerging “eastern” zone towards the base of the intrusive complex, ~200m further east in AKD020, 021 and 22.
- The mineralisation in both zones remains open down-plunge, providing a clear target for follow-up exploration.
- Notable drilling results from Akelikongo include:
  - AKD019: a mixed oxide and sulphide intercept of 10m @ 0.49% Ni and 0.16% Cu from 29m (oxide) and 10m @ 0.43% Ni and 0.13% Cu from 39-49m and 4m @ 0.37% Ni and 0.12% Cu from 53m, extending the near-surface “main” mineralised zone further east;
  - AKD020: an intercept of 16.4m @ 0.44% Ni, 0.12% Cu and 0.03% Co from 274.3m located ~200m east of the “main” discovery zone drilled by Sipa in 2015-2017;
  - AKD021: the mineralised zone assayed 0.41% Ni and 0.12% Cu over 10.20m from 298.70m (calculated using 0.25% Ni cut-off). An internal zone of semi-massive sulphide within this interval assayed 1.2% Ni and 0.14% Cu over 0.40m; and
  - AKD022: intersected two zones of disseminated, vein and semi-massive sulphide mineralisation located towards the base of the intrusion. The upper zone assayed 0.29% Ni and 0.07% Cu over 11.7m from 290.80m. The lower zone assayed 0.31% Ni and 0.08% Cu over 17.6m from 304.60m.
- Regional geochemical characterisation data have confirmed that the region is prospective for further nickel sulphide mineralised intrusions.
- Exploration including ground magnetics, rock chip sampling and mapping is continuing regionally, with down-hole EM surveys and AMT (Audio Magneto Telluric) surveys planned along with further follow-up drilling at Akelikongo.

Sipa Resources Limited (ASX: **SRI**) (**Sipa**) is pleased to announce further diamond drilling results from the ongoing exploration program at its Kitgum Pader Nickel-Copper Project in Northern Uganda, a joint venture between Sipa and Rio Tinto Mining & Exploration Limited (Rio Tinto).

The program is being managed by Sipa on behalf of Rio Tinto, which is currently earning a 51% interest in the Project as part of the Landmark Farm-in and JV Agreement announced in May 2018 under which Rio Tinto can fund up to US\$57 million of exploration expenditure and make US\$2 million in cash payments to earn up to a 75% interest in the Project.



Since it commenced in August 2018, the program has included diamond drilling, gravity and ground magnetic surveying and mapping over selected prospects. In addition further regional soil sampling has also been conducted.

Commenting on the results, Sipa Resources' Managing Director, Lynda Burnett, said: *"The diamond drilling assays have provided encouragement for ongoing exploration at Kitgum Pader, confirming extensions of the main zone of outcropping nickel-copper mineralization at Akelikongo while also further delineating the new 'Eastern Zone' of mineralization reported in our last announcement.*

*"Given that this zone remains open down-plunge beyond the current drilling, it provides a clear vector for follow-up exploration. Regional geochemical characterization work has also confirmed that we are in a fertile environment for magmatic nickel-copper sulphide discoveries, highlighting the prospectivity of the regional intrusions.*

*"Putting all the information together, we believe the Joint Venture has made a very strong and encouraging start to the exploration program at Kitgum Pader. Everything we have seen confirms that this is a highly prospective, district-scale opportunity for nickel sulphide discovery."*

#### **Diamond Drilling:**

A total of 10 diamond holes have been drilled to date for a total of 4,083m covering the Goma and Lawiye Adul regional targets, with five holes for 1,993.5m completed at the Akelikongo discovery.

Drilling at the regional targets intersected ultramafic intrusions as envisaged, however no magmatic sulphide has yet been identified. Integration of the geochemical and litho-geochemical analyses is currently underway in order to relate these intrusions to the Akelikongo suite.

Details of the drill-holes completed to date are provided in Table 1 below:

Hole_ID	East	North	RL m	UTM Grid azimuth	Dip	Total Depth	Prospect	Results
<b>Akelikongo</b>								
AKD018	456790	397096	950	045	-60	446.7	Akelikongo	Pending
AKD019	457135	396917	953	045	-60	356.7	Akelikongo	Reported 1 May 2019
AKD020	457038	397029	956	045	-65	356.7	Akelikongo	Reported 1 May 2019
AKD021	456920	397059	954	045	-60	362.7	Akelikongo	Received
AKD022	456886	397281	949	045	-70	470.7	Akelikongo	Received
<b>Regional targets</b>								
LAD001	466956	326924	1023	060	-60	362.7	Lawiye Adul	Reported 1 May 2019
LAD002	466380	328410	1008	268	-60	317.5	Lawiye Adul	Not assayed
LAD003	466380	328409	1008	060	-60	458.7	Lawiye Adul	Pending
LAD004	466447	327105	1030	270	-60	518.1	Lawiye Adul	Pending
GMD001	464473	342079	917	300	-60	431.7	Goma	Reported 1 May 2019

*Table 1. Drill-hole coordinates, orientations and depths*



## Akelikongo

A total of five holes for 1,993.5m have now been drilled at Akelikongo, resulting in further nickel and copper sulphide intersections at Akelikongo Main and also at the emerging “Eastern zone” towards the base of the intrusive complex (see Figure 1). The emerging eastern zone is located around 200m to the east of the main outcropping mineralisation drilled by Sipa during 2015-2017.

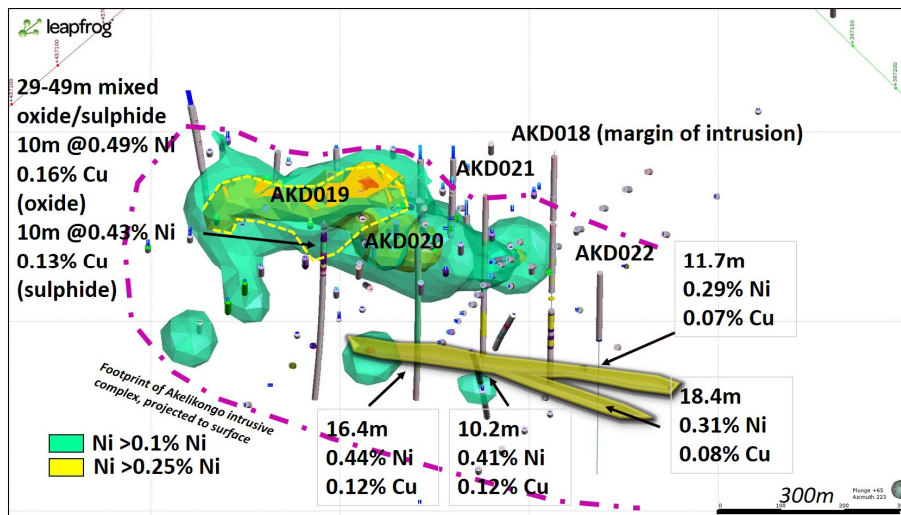


Figure 1. Plan of current drilling at Akelikongo, (purple dotted outline marks outline of intrusion) showing results from AKD018-22 and new eastern mineralised zone (schematic) shown in yellow.

At the emerging eastern zone, disseminated and minor massive sulphides have now been intersected in holes including drilled holes AKD020, AKD021 and AKD022.

The zone is interpreted to have been previously intersected in holes AKD014 and AKD016, drilled previously by Sipa in 2015. AKD019 has intersected near-surface mineralisation which extends from the previously drilled main zone further to the east.

AKD020 intersected a 16.4m wide mineralised zone with blebby and disseminated sulphides ranging from 10% to 30% rock volume with **assay results of 1.3m at 1.52% Ni 0.2% Cu and 0.1% Co within a broader intercept of 16.4m @ 0.44% Ni, 0.12% Cu and 0.03% Co from 274.3m to 290.7m.**

This hole successfully tested a modelled DHEM plate detected off-hole from diamond hole AKD015 and forms part of the eastern mineralised zone.

AKD021 intersected disseminated, vein and semi-massive sulphide mineralisation also located towards the base of the Akelikongo ultramafic intrusion about 100m along strike from AKD020. The mineralised zone assayed 0.41% Ni and 0.12% Cu over 10.20m from 298.70m (calculated using 0.25% Ni cut-off).

An internal zone of semi-massive sulphide within this interval assayed 1.2% Ni and 0.14% Cu over 0.40m. This zone also successfully tested a previously identified off hole DHEM plate target.

The success of AKD020 and AKD021 in intersecting strong sulphide mineralisation at the modelled DHEM positions confirms the effectiveness of DHEM as a key targeting tool for further drilling as the mineral system continues down-plunge.

AKD022 stepped out a further 200m down-plunge and intersected two zones of disseminated, vein and semi-massive sulphide mineralisation located towards the base of the intrusion.



The upper zone assayed 0.29% Ni and 0.07% Cu with nickel tenor of 4.85% over 11.7m from 290.80m. The lower zone assayed 0.31% Ni and 0.08% Cu with nickel tenor of 2.74% over 17.60m from 304.60m.

The lower tenor zones adjacent to the base of the intrusion are related to local dilution by sulphur from the host gneiss.

AKD019 intersected near-surface mineralisation containing moderately disseminated magmatic sulphides associated with harzburgite, peridotite and norite from 29m to 49m, with an intersection including an oxidized zone from 29-39m of 10m @ 0.49% Ni and 0.16% Cu and 10m of sulphide mineralisation from 39m @ 0.43% Ni and 0.13% Cu.

This zone is interpreted to be an eastern extension of the upper outcropping “main” mineralisation previously drilled by Sipa.

AKD018 drilled down the margin of the Akelikongo Ultramafic complex and intersected a small zone of massive sulphide which has been intruded into the gneiss at 397m. Assays are awaited.

Assay results >0.25% Ni where aggregated have generally less than 1m internal dilution and are reported using a length weighted average technique. Table 2 shows the summary of the intercepts and Table 3 shows the detail of these intercepts as individual assays for AKD021 and AKD022.

Down-hole EM is being undertaken on these holes before further targeting commences.

### **Regional drilling and geochemical studies**

An extensive litho-geochemical database has been compiled using results from rock chips and drill core at Akelikongo, Goma, and Lawiye Adul. Ongoing detailed analysis of this high-quality dataset is revealing that all the intrusions are magma conduits that display significant internal complexity.

The Goma and Lawiye Adul intrusions have similar metallogenic characteristics to Akelikongo, within pristine mantle-derived intrusions. Akelikongo shows a greater degree of crustal contamination that has triggered sulphur saturation. The data confirm that the region is fertile and prospective for economic nickel sulphide mineralisation.

This study, which was undertaken in conjunction with ground gravity and ground magnetics, is ongoing with further rock chip sampling continuing.

A new ultramafic intrusive complex known as Togoro has been identified through soil sampling and follow-up mapping. The intrusion is similar in style to Goma, 75km to the south-east.

Rock chip sampling has also been conducted to determine its relationship to the other prospective intrusions (see Figure 2 below)

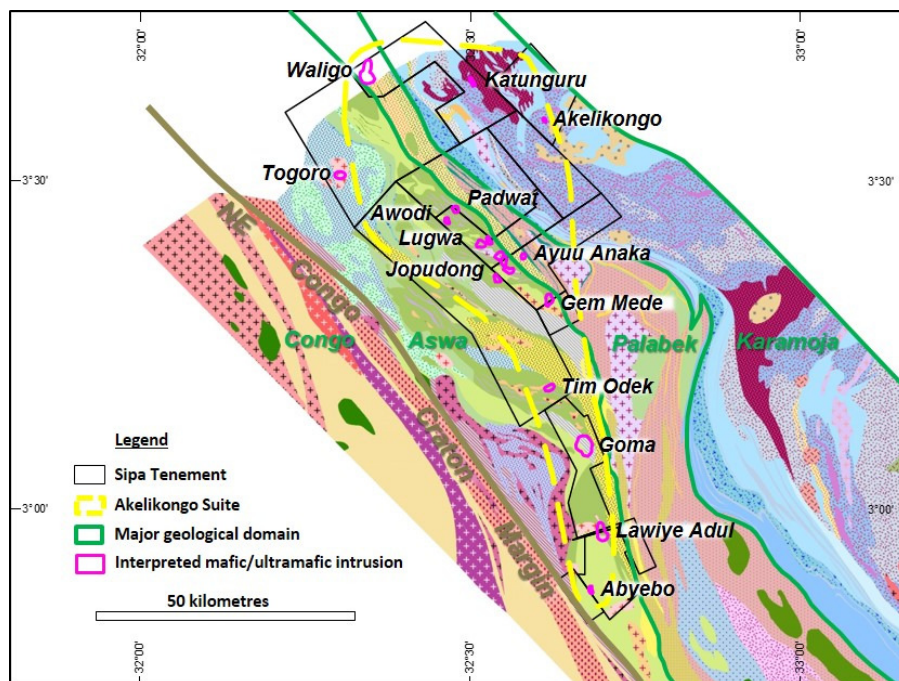


Figure 2: Kitum Pader Project areas showing nickel-in-soil anomalies and interpreted prospective ultramafic intrusions as named prospects.

### Competent Persons Statement

The information in this report that relates to Exploration Results is based on, and fairly represents, information and supporting documentation compiled by Ms Lynda Burnett, who is a Member of The Australasian Institute of Mining and Metallurgy. Ms Burnett is a full-time employee of Sipa Resources Limited. Ms Burnett has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which she 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'. Ms Burnett consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

Table 2: Summary assay results generally above >0.25% Ni - AKD019 – AKD022

Hole	From	To	Width	Cu%	Ni%	Co%
AKD019	29	39	10	0.16	0.49	0.02
AKD019	39	50	11	0.14	0.43	0.02
AKD019	53	57	4	0.12	0.37	0.02
AKD019	202	204	2	0.07	0.23	0.015
AKD020	274.3	291.5	17.2	0.14	0.44	0.03
AKD021	85.4	89.1	3.7	0.06	0.24	0.016
AKD021	298.7	308.9	10.2	0.12	0.41	0.03
AKD022	290.8	302.5	11.7	0.07	0.29	0.02
AKD022	304.6	323	18.4	0.08	0.31	0.02



**Table 3: Detailed assay results generally above >0.25% Ni - AKD021 – AKD022**

Hole	From	To	Width	Cu%	Ni %	Co%	MgO %	S %
AKD021	84.3	85.4	1.1	0.071	0.164	0.013	8.41	2.07
AKD021	85.4	86.4	1	0.081	0.262	0.019	22.5	3.07
AKD021	86.4	87.4	1	0.038	0.152	0.014	25.9	1.06
AKD021	87.4	88.3	0.9	0.070	0.269	0.017	19.95	1.88
AKD021	88.3	89.1	0.8	0.063	0.271	0.017	17.5	1.82
AKD021	298.7	299.4	0.7	0.057	0.332	0.027	4.38	5.38
AKD021	299.4	300	0.6	0.029	0.167	0.014	6.33	2.67
AKD021	300	301	1	0.144	0.595	0.047	19.15	9.94
AKD021	301	301.7	0.7	0.165	0.454	0.037	20.3	7.48
AKD021	301.7	302.3	0.6	0.193	0.392	0.032	18.95	6.37
AKD021	302.3	302.7	0.4	0.148	1.1950	0.091	7.28	17.85
AKD021	302.7	303.7	1	0.086	0.321	0.027	14.05	4.74
AKD021	303.7	304.7	1	0.094	0.313	0.026	18.3	4.75
AKD021	304.7	305.7	1	0.076	0.232	0.020	15.35	3.43
AKD021	305.7	306.7	1	0.147	0.343	0.029	19.8	5.44
AKD021	306.7	307.8	1.1	0.124	0.447	0.036	19.75	6.96
AKD021	307.8	308.9	1.1	0.130	0.453	0.037	18.35	6.78
AKD022	289.8	290.8	1	0.062	0.187	0.018	23.4	1.56
AKD022	290.8	291.8	1	0.064	0.265	0.023	27.5	2.16
AKD022	291.8	292.8	1	0.087	0.279	0.024	27.8	2.36
AKD022	292.8	293.8	1	0.066	0.311	0.025	29.4	2.5
AKD022	293.8	294.8	1	0.084	0.336	0.025	28.5	2.69
AKD022	294.8	295.8	1	0.040	0.168	0.018	29.4	1.35
AKD022	295.8	296.8	1	0.062	0.245	0.020	30.9	1.83
AKD022	296.8	297.8	1	0.123	0.321	0.024	28.1	2.36
AKD022	297.8	298.8	1	0.094	0.368	0.024	29	2.27
AKD022	298.8	299.8	1	0.092	0.348	0.024	29.2	2.18
AKD022	299.8	300.8	1	0.054	0.255	0.018	29	1.33
AKD022	300.8	301.8	1	0.067	0.305	0.021	27.4	1.81
AKD022	301.8	302.5	0.7	0.059	0.244	0.016	22.3	1.66
AKD022	302.5	303.1	0.6	0.005	0.036	0.003	3.45	0.25
AKD022	303.1	303.4	0.3	0.005	0.034	0.003	3.6	0.24
AKD022	303.4	303.9	0.5	0.001	0.010	0.002	3.18	0.02
AKD022	303.9	304.6	0.7	0.015	0.066	0.007	16.35	0.36
AKD022	304.6	305.6	1	0.085	0.318	0.021	28.8	2.35
AKD022	305.6	306.6	1	0.081	0.286	0.021	29.3	2.18
AKD022	306.6	307.6	1	0.066	0.264	0.020	29.1	2.2



Hole	From	To	Width	Cu%	Ni %	Co%	MgO %	S %
AKD022	307.6	308.6	1	0.079	0.273	0.022	28.9	2.8
AKD022	308.6	309.6	1	0.064	0.252	0.021	29.4	2.44
AKD022	309.6	310.6	1	0.071	0.256	0.022	28.7	2.95
AKD022	310.6	311.6	1	0.095	0.281	0.024	29.4	3.11
AKD022	311.6	312.6	1	0.067	0.275	0.024	29.4	3.77
AKD022	312.6	313.5	0.9	0.113	0.274	0.024	26.5	3.7
AKD022	313.5	313.9	0.4	0.005	0.026	0.003	3.07	0.31
AKD022	313.9	314.9	1	0.065	0.271	0.024	22.5	3.64
AKD022	314.9	315.9	1	0.063	0.217	0.019	27.3	2.54
AKD022	315.9	316.9	1	0.084	0.216	0.018	27.3	2.94
AKD022	316.9	317.9	1	0.111	0.364	0.029	25.9	5.72
AKD022	317.9	318.9	1	0.105	0.401	0.032	25.2	6.23
AKD022	318.9	319.9	1	0.166	0.715	0.055	19.35	10.55
AKD022	319.9	320.9	1	0.095	0.477	0.037	14.65	7.18
AKD022	320.9	321.9	1	0.061	0.205	0.015	5.5	3.08
AKD022	321.9	322.2	0.3	0.086	0.335	0.025	4.02	5.16
AKD022	322.2	323	0.8	0.060	0.177	0.012	2.12	2.66



## JORC Code, 2012 Edition – Table 1 report template

### Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>See Sub sampling techniques (for drilling)</li></ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"><li>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).</li></ul>	<ul style="list-style-type: none"><li>Diamond drilling consisting of HQ coring from surface then reducing to NQ2 from fresh rock.</li><li>Core was oriented using Reflex ActII RD Rapid Descent Orientation</li></ul>
<b>Drill sample recovery</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>The recovery was very high, normally 100%</li><li>Groundwater was encountered in many holes.</li></ul>





Criteria	JORC Code explanation	Commentary
<b>Logging</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>Logging was conducted on all holes using a digital quantitative and qualitative logging system to a level of detail which would support a mineral resource estimation.</li></ul>
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"><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 sub-sampling stages to maximise representivity of samples.</li><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 style="list-style-type: none"><li>Drillcore samples were cut in half using a core saw with one half going to the laboratory. The entire sample is crushed and split at the laboratory.</li></ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>For the samples selected for laboratory analysis multielement assaying is done via a commercial laboratory using Whole rock analysis plus trace elements using Li-borate fusion and four acid digest supertrace analyses . For all samples additional assaying for Au Pt and Pd is by and 30g Fire Assay with ICP finish. S by four acid digest and by LECO.</li><li>Lab Standards:every 10m either a duplicate, a standard, or a blank was assayed</li></ul>



Criteria	JORC Code explanation	Commentary
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• This is an early drill test into a newly identified prospect. No verification has been completed yet.</li><li>• Twinned holes are not undertaken</li><li>• Data entry is checked by Perth Based Data Management Geologist and by Rio Tinto's internal data management systems</li><li>• Assays have not been adjusted</li></ul>
<b>Location of data points</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• Drill holes and soil and rock points have been located via hand held GPS.</li></ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• No Mineral Resource or Ore Reserve Estimation has been calculated. Drill hole spacing sufficient for current level of exploration and evaluation.</li></ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• Although this is an early stage drilling program the drilling has been designed to cut at as orthogonal as possible to the mineralised bodies.</li></ul>
<b>Sample security</b>	<ul style="list-style-type: none"><li>• The measures taken to ensure sample security.</li></ul>	<ul style="list-style-type: none"><li>• Drill samples are sent by truck and accompanied to Entebbe by a Sipa employee with sealed, unique bag tags. From the freight depot they are consigned by air to the laboratory in Perth.</li></ul>



Criteria	JORC Code explanation	Commentary
<b>Audits or reviews</b>	<ul style="list-style-type: none"><li>The results of any audits or reviews of sampling techniques and data.</li></ul>	<ul style="list-style-type: none"><li>A preliminary review of sampling and assaying and drillhole spacing for JORC resource planning by CSA Global was conducted in 2016. Results of this audit are that a higher grade standard has been added to the lower grade standard for assay QA/QC. Also a more detailed drill spacing has been recommended for JORC resource calculation purposes.</li></ul>

## Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>The results reported in this Announcement are on granted Exploration Licences held by Sipa Exploration Uganda Limited, a 100% beneficially owned subsidiary of Sipa Resources Limited.</li><li>Rio Tinto Exploration is earning equity into the joint venture by funding exploration.</li><li>At this time the tenements are believed to be in good standing. There are no known impediments to obtain a license to operate, other than those set out by statutory requirements which have not yet been applied for.</li></ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"><li>Acknowledgment and appraisal of exploration by other parties.</li></ul>	<ul style="list-style-type: none"><li>No previous mineral exploration activity has been conducted prior to Sipa.</li></ul>



Criteria	JORC Code explanation	Commentary
<b>Geology</b>	<ul style="list-style-type: none"><li>• Deposit type, geological setting and style of mineralisation.</li></ul>	<ul style="list-style-type: none"><li>• The Kitgum-Pader Project covers reworked, high grade metamorphic, Archaean and Proterozoic supracrustal rocks heavily overprinted by the Panafrican Neoproterozoic event of between 600 and 700Ma. The tectonostratigraphy includes felsic ortho- and para-gneisses and mafic and ultramafic amphibolites and granulites and is situated on the northeastern margin of the Congo Craton. The geology and tectonic setting is prospective for magmatic Ni, Broken Hill type base metal and orogenic Au deposits</li></ul>
<b>Drillhole Information</b>	<ul style="list-style-type: none"><li>• A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:<ul style="list-style-type: none"><li>○ easting and northing of the drill hole collar</li><li>○ elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li><li>○ dip and azimuth of the hole</li><li>○ down hole length and interception depth</li><li>○ hole length.</li></ul></li><li>• 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.</li></ul>	<ul style="list-style-type: none"><li>• Reported in Text</li></ul>
<b>Data aggregation methods</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>• Assay results &gt;0.25% Ni (with generally less than 1m internal dilution) for Akelikongo have been reported. Where data has been aggregated a length weighted average technique has been used.</li></ul>



Criteria	JORC Code explanation	Commentary
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>These widths approximate true width where possible. However due to the pipe like and variable nature of the body some intercepts may not be true width.</li><li>The geometry is generally dipping vertically or moderately to the east and plunging shallowly to the north west.</li></ul>
<b>Diagrams</b>	<ul style="list-style-type: none"><li>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.</li></ul>	<ul style="list-style-type: none"><li>Reported in Text.</li></ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"><li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li></ul>	<ul style="list-style-type: none"><li>Assay results &gt;0.25% Ni (with generally less than 1m internal dilution) are reported for Akelikongo.</li><li>The results reported are not the full intervals assayed.</li></ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"><li>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.</li></ul>	<ul style="list-style-type: none"><li>Not applicable</li></ul>
<b>Further work</b>	<ul style="list-style-type: none"><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 style="list-style-type: none"><li>As reported in the text</li></ul>



**For more information:**

Lynda Burnett  
Managing Director  
Sipa Resources Limited  
+61 (0) 8 9388 1551  
[info@sipa.com.au](mailto:info@sipa.com.au)

**Media Inquiries:**

Nicholas Read  
Read Corporate  
+61 (0) 8 9388 1474  
[nicholas@readcorporate.com.au](mailto:nicholas@readcorporate.com.au)

**About Sipa**

Sipa Resources Limited (ASX: SRI) is an Australian-based exploration company aiming to discover significant new gold-copper and base metal deposits in established and emerging mineral provinces with world-class potential.

In Northern Uganda, the 100%-owned Kitgum-Pader Base Metals Project contains an intrusive-hosted nickel-copper sulphide discovery at Akelikongo, one of the most significant recent nickel sulphide discoveries globally.

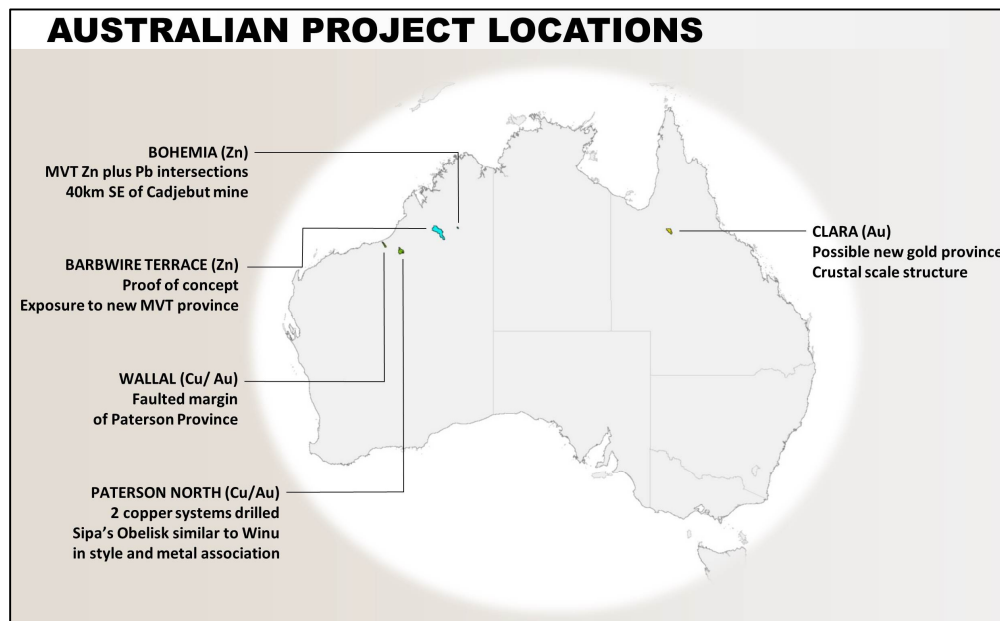
In May 2018 Sipa announced a Landmark Farm-in and JV Agreement with Rio Tinto to underpin accelerated nickel-copper exploration at the Kitgum Pader Base Metals Project in Northern Uganda in which Rio Tinto can fund up to US\$57M of exploration expenditure and make US\$2M in cash payments to earn up to a 75% interest the project.

The Joint Venture commenced in August 2018 and Sipa is manager of the project for the first 18 months, after which Rio can elect to become manager or continue to have Sipa manage the project.

In Australia, Sipa has an 80% interest in Joint Venture with Ming Gold at the Paterson North Copper Gold Project in the Paterson Province of North West Western Australia, where polymetallic intrusive related mineralisation was intersected at the Obelisk prospect.

The Paterson Province is a globally recognized, strongly endowed and highly prospective mineral belt hosting the plus 25Moz world-class Telfer gold and copper deposits, Magnum and Calibre gold and copper deposits, Nifty copper and Kintyre uranium deposits and the O'Callaghans tungsten deposit.

Sipa also has number of other landholdings in Northern Australia including the newly acquired Barbwire Terrace and Bohemia Zinc projects and the Clara gold project in Northwest Queensland.







## Glossary

---

### **Chalcopyrite**

Chalcopyrite is a copper iron sulphide mineral with the formulae  $\text{CuFeS}_2$ . The principle three sulphide minerals in nickel sulphide deposits are pyrrhotite, pentlandite and chalcopyrite in decreasing order of abundance.

### **Cumulate**

Cumulate rocks are the typical product of precipitation of solid crystals from a fractionating magma chamber. These accumulations typically occur on the floor of the magma chamber. Cumulates are typically found in ultramafic intrusions, in the base of large ultramafic lava tubes in komatiite and magnesium rich basalt flows and also in some granitic intrusions.

### **Gneiss**

Gneiss is a high grade metamorphic rock, meaning that it has been subjected to higher temperatures and pressures than schist. It is formed by the metamorphosis of granite, or sedimentary rock. **Gneiss** displays distinct foliation, representing alternating layers composed of different minerals

### **MgO content**

Method of mafic and ultramafic rock classification, with high MgO ultramafic rocks generally comprising greater than 25% MgO. The higher the MgO content the more nickel the rock can contain in silicate form with modifying factors up to 3000ppm.

### **Migmatite**

Migmatite is a rock that is a mixture of metamorphic rock and igneous rock. It is created when a metamorphic rock such as gneiss partially melts, and then that melt recrystallizes into an igneous rock, creating a mixture of the unmelted metamorphic part with the recrystallized igneous part.

### **Nickel tenor**

Nickel grade in 100% massive sulphide.

### **Oikocrysts**

Part of the definition of poikilitic texture. Poikilitic texture is a texture in which small, randomly orientated, crystals are enclosed within larger crystals of another mineral. The term is most commonly applied to igneous rock textures. The smaller enclosed crystals are known as chadacrysts, whilst the larger crystals are known as oikocrysts.

### **Paragneiss**

A metamorphic rock formed in the earth's crust from sedimentary rocks (sandstones and argillaceous schists) that recrystallized in the deep zones of the earth's crust

### **Pentlandite**

Pentlandite is an iron-nickel sulphide mineral with the formula,  $(\text{Fe,Ni})_9\text{S}_8$ .

### **Peridotite**

Peridotite is a dense, coarse-grained igneous rock, consisting mostly of the minerals olivine and pyroxene. Peridotite is ultramafic, as the rock contains less than 45% silica.



### **Pyroxenite**

Pyroxenite is an ultramafic igneous rock consisting essentially of minerals of the pyroxene group, such as augite and diopside, hypersthene, bronzite or enstatite. They are classified into clinopyroxenites, orthopyroxenites, and websterites which contain both clino and orthopyroxene.

### **Pyrrhotite**

Pyrrhotite is an iron sulphide mineral with the formula  $\text{Fe}_{(1-x)}\text{S}$  ( $x = 0$  to  $0.2$ ).

### **Saprolite**

In situ deeply weathered rock usually consisting of a large percentage of clay minerals

### **Sulphide textures**

- Massive

Solid sulphide 100%

- Semi-massive

Large blocks and pieces greater than 10mm in diameter of massive sulphide, often chaotic in texture but commonly taking up more than 20% of the rock volume. Stringer sulphides (where sulphides form elongate irregular veins and ribbons) often occur with semi-massive sulphides

- Net textured (matrix)

Descriptive term to describe the visual appearance of a net with the sulphides forming the net and the other rock forming minerals the matrix, also known as matrix sulphides. Generally 20-50% of rock volume

- Blebby

Grain size more than about 5mm and resembling droplets

- Disseminated

Fine to medium grained (0.5 to 3mm) sprinkling of sulphides scattered throughout the ultramafic rock. Coarsening and increasing grade often occurs within the disseminated zone towards the gravitational base of the intrusion at the time of crystallisation. This is generally regarded as indicating gravitational settling of the sulphides as the magma and sulphide solution cool to form solid rock.

### **Xenomelt**

Melt of a foreign rock typically the country rock, through which the hot ultramafic magma intrudes, interacts and partially melts and absorbs.

### **Ultramafic**

Generic term for rocks composed of usually greater than 90% mafic minerals (dark colored, high in magnesium and iron) also have <45% silica. As opposed to mafic rocks which has 45-51% silica. The origin of ultramafic rocks is generally from deep within the earth's mantle.