

New Extension to Gold-Rich High-Grade Copper Zone at Kharmagtai

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TORONTO, March 24, 2021 - [Xanadu Mines Ltd.](#) (ASX: XAM, TSX: XAM) (Xanadu or the Company) is pleased to report the results of diamond drill hole KHDDH563, located at the Stockwork Hill deposit on the Company's Kharmagtai porphyry copper and gold project in the South Gobi region of Mongolia (Figures 1 and 2).

Highlights

- Drill hole KHDDH563 intersects a broad zone of high-grade gold-rich chalcopyrite and bornite mineralisation south of the Stockwork Hill resource, expanding the high grade bornite zone beyond the defined resources
 - KHDDH563 intersects 181.4m @ 0.68% Cu and 1.78g/t Au (1.59% eCu) from 648.6m

Including 92m @ 1.06% Cu and 3.23g/t Au (2.71% eCu) from 686m

- KHDDH563 expands high-grade mineralisation 70m south and up-dip of previously reported intercept in KHDDH559B
- KHDDH564 identifies new target to the south with similar structural characteristics to the high grade zones at Stockwork Hill
- Deeper step back hole KHDDH564, still in progress, intercepting visual chalcopyrite mineralisation in target zone 400m along down-dip and along strike from KHDDH563.

Xanadu's Chief Executive Officer, Dr Andrew Stewart, said *"KHDDH563 is the first follow-up hole to our high-grade intercept at KHDDH559B. We are pleased to report this delivered our expectation of a clear extension of high-grade gold-rich mineralisation along strike and up-dip, outside the current resource model. This result further demonstrates the growth potential through extension of Stockwork Hill, and our team is designing follow-up drilling to test this exciting new zone."*

About KHDDH563

The purpose of drilling KHDDH563 was to test extensions of Stockwork Hill at depth to inform the second phase of drilling focused on higher grade targets. KHDDH563 was drilled from south of Stockwork Hill towards the north, designed as a scissor hole to KHDDH559B (please see ASX/TSX Announcement dated 15 February 2021). KHDDH563 entered mineralisation at 648.6m, expanding the intercept in KHDDH559B 70m up-dip and to the south (Figures 1 and 2).

Figure 1 is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/19e93fbc-f4e3-4bca-8df3-1f313c374fed>

KHDDH563 intersected;

181.4m @ 0.68% Cu and 1.78g/t Au (1.59% eCu) from 648.6m

Including 169m @ 0.72% Cu and 1.91g/t Au (1.7% eCu) from 651m

Including 105.6m @ 0.99% Cu and 2.89g/t Au (2.46% eCu) from 680m

Including 92m @ 1.06% Cu and 3.23g/t Au (2.71% eCu) from 686m

It is noteworthy that this maintains the gold tenor of the deeper, high-grade bornite mineralisation seen in KHDDH559B (previously announced), with between 2-4 g/t Au for each percent in copper.

Importantly, structural information from this hole and the surrounding drilling has aided in a new structural interpretation, identifying the potential repeat of high-grade bornite mineralisation south of the current drilling, towards the base of White Hill (Figure 1). Drill Hole KHDDH564 was collared in early March to test this new target and is currently drilling visible sulphide mineralisation within the expected target zone (Figure 4).

About KHDDH564

Drill hole KHDDH564 is designed as a large-scale step out (400m to the south), targeting a repeat of the high-grade bornite zone at Stockwork Hill (Figure 1 and 2). KHDDH564 is currently at 1,200m and entered visible sulphide mineralisation within the predicted target zone at ~1,180m (Figure 4).

Additionally, KHDDH564 passed through a zone of tourmaline breccia (main host rock copper and gold mineralisation) between 570m and 740m (Figure 5). This zone of tourmaline breccia is identical to the tourmaline breccia found above the strongly mineralised tourmaline breccia at Stockwork Hill, identifying another significant target at Kharmagtai. The tourmaline breccia at Stockwork Hill is zoned, with an outer shell of pyrite bearing tourmaline breccia surrounding the high-grade chalcopyrite zone. Interestingly, this zone of breccia terminated against a fault, indicating it has been offset. Structural work is underway to understand the offset on this fault and determine the location of potentially copper bearing tourmaline breccia.

Figure 2 is available at

<https://www.globenewswire.com/NewsRoom/AttachmentNg/5ac4b027-6f4e-45d4-8d19-b1e53e9be4db>

Final Assay Results KHDDH559B

Final assay results from the tail of KHDDH559B have been received. These results did not change the reported intercept (see ASX/TSX Announcement dated 15 February 2021). The remainder of the hole returned broad intervals of patchy low grade copper mineralisation with a narrow intercept at the end of the hole returning 5m @ 1.13g/t Au, relating to a narrow (2m @ 4.91g/t Au) epithermal vein.

Figure 3 is available at

<https://www.globenewswire.com/NewsRoom/AttachmentNg/1241eb25-1548-42d4-bd84-59162f17acc5>

Figure 4 is available at

<https://www.globenewswire.com/NewsRoom/AttachmentNg/4a9c02a6-8ea7-42d2-a8e4-09b098a73351>

Figure 5 is available at

<https://www.globenewswire.com/NewsRoom/AttachmentNg/c7b34434-7ee1-475b-b9d7-9eb93cced7e4>

About Xanadu Mines

Xanadu is an ASX and TSX listed Exploration company operating in Mongolia. We give investors exposure to globally significant, large scale copper-gold discoveries and low-cost inventory growth. Xanadu maintains a portfolio of exploration projects and remains one of the few junior explorers on the ASX or TSX who control an emerging Tier 1 copper-gold deposit in our flagship Kharmagtai project. For information on Xanadu visit: www.xanadumines.com.

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This Announcement was authorised for release by Xanadu's Board of Directors.

Appendix 1: Drilling Results

Table 1: Drill hole collar

Hole ID	Prospect	East	North	RL	Azimuth (?)	Inc (?)	Depth (m)
KHDDH559B	Stockwork Hill	592867	4878060	1163	190	-53	1120.1
KHDDH563	Stockwork Hill	592690	4877190	1296	0	-60	951.0
KHDDH564	Stockwork Hill	592668	4876649	1299	0	-60	1200.0

Table 2: Significant drill results

Hole ID	Prospect	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)	CuEq (%)	AuEq (g/t)
KHDDH559B	Stockwork Hill	218	226	8	0.14	0.11	0.18	0.35
<i>and</i>		236	248	12	0.09	0.06	0.10	0.20
<i>and</i>		284	564	280	0.36	0.46	0.64	1.26
<i>and</i>		290	294	4	0.19	0.28	0.38	0.74
<i>including</i>		308	554	246	0.40	0.51	0.71	1.39
<i>including</i>		318	336	18	0.28	0.67	0.81	1.58
<i>including</i>		346	472	126	0.50	0.70	0.96	1.87
<i>including</i>		346	360	14	1.23	2.36	2.99	5.84
<i>including</i>		370	374	4	0.53	1.11	1.37	2.69
<i>including</i>		392	414	22	0.74	0.73	1.11	2.17
<i>including</i>		510	518	8	0.97	0.27	0.76	1.49
<i>including</i>		534	546	12	0.34	0.41	0.58	1.14
<i>and</i>		611.8	838	226.2	1.43	0.68	1.41	2.75
<i>including</i>		615	790	175	1.83	0.84	1.78	3.47
<i>including</i>		617	637	20	2.09	1.09	2.16	4.22
<i>including</i>		617	635	18	2.28	1.15	2.32	4.53
<i>including</i>		649	783	134	2.04	0.89	1.93	3.77
<i>including</i>		651	712	61	3.76	1.43	3.36	6.57
<i>including</i>		756	763	7	1.67	1.07	1.92	3.76
<i>and</i>		848	908	60	0.05	0.09	0.11	0.22
<i>and</i>		928	938	10	0.05	0.08	0.11	0.21
<i>and</i>		970.3	994	23.7	0.13	0.10	0.16	0.32
<i>and</i>		1115	1120.1	5.1	1.13	0.05	0.62	1.22
KHDDH563	Stockwork Hill	322	332	10	0.06	0.12	0.15	0.29
<i>and</i>		648.6	830	181.4	1.78	0.68	1.59	3.11
<i>including</i>		651	820	169	1.91	0.72	1.70	3.32
<i>including</i>		664	668	4	0.40	0.52	0.72	1.41
<i>including</i>		680	785.6	105.6	2.89	0.99	2.46	4.82
<i>including</i>		686	778	92	3.23	1.06	2.71	5.30
<i>and</i>		860	937.1	77.1	0.10	0.19	0.24	0.47
<i>including</i>		888	892	4	0.07	0.30	0.34	0.66
<i>including</i>		906	936	30	0.16	0.27	0.35	0.69
<i>including</i>		928	934	6	0.38	0.42	0.62	1.20
<i>and</i>		947.5	951	3.5	0.05	0.35	0.38	0.74

Table 3: Selected copper and gold assay results for the high-grade zone

Hole ID	From (m)	To (m)	Interval (m)	Au (g/t)	Cu (%)	CuEq (%)	AuEq (g/t)
KHDDH563 680	680	682	2	0.45	0.43	0.66	1.29
KHDDH563 682	682	684	2	0.60	0.25	0.55	1.08
KHDDH563 684	684	686	2	0.95	0.37	0.85	1.67
KHDDH563 686	686	688	2	1.65	1.27	2.11	4.12
KHDDH563 688	688	690	2	3.40	1.39	3.12	6.11
KHDDH563 690	690	692	2	1.25	0.38	1.02	2.00
KHDDH563 692	692	694	2	1.12	0.32	0.89	1.75
KHDDH563 694	694	696	2	1.73	0.35	1.23	2.41
KHDDH563 696	696	698	2	2.39	1.00	2.22	4.34
KHDDH563 698	698	700	2	2.49	0.69	1.97	3.84
KHDDH563 700	700	702	2	2.66	0.83	2.19	4.29
KHDDH563 702	702	704	2	1.53	0.59	1.37	2.69
KHDDH563 704	704	706	2	0.96	0.29	0.78	1.53
KHDDH563 706	706	708	2	1.78	0.79	1.70	3.32
KHDDH563 708	708	710	2	2.21	0.64	1.77	3.46
KHDDH563 710	710	712	2	4.27	1.59	3.77	7.37
KHDDH563 712	712	714	2	7.71	1.83	5.77	11.28
KHDDH563 714	714	716	2	15.75	3.45	11.50	22.50
KHDDH563 716	716	718	2	7.22	2.11	5.80	11.35
KHDDH563 718	718	720	2	6.33	1.77	5.01	9.79
KHDDH563 720	720	722	2	1.15	0.47	1.05	2.06
KHDDH563 722	722	724	2	0.79	0.50	0.90	1.76
KHDDH563 724	724	726	2	1.44	0.59	1.33	2.60
KHDDH563 726	726	728	2	2.41	0.80	2.03	3.98
KHDDH563 728	728	730	2	5.08	1.53	4.13	8.07
KHDDH563 730	730	732	2	5.80	1.26	4.22	8.25
KHDDH563 732	732	734	2	10.80	2.14	7.66	14.98
KHDDH563 734	734	736	2	4.42	1.04	3.30	6.44
KHDDH563 736	736	738	2	2.57	1.13	2.44	4.78
KHDDH563 738	738	740	2	2.62	0.88	2.22	4.34
KHDDH563 740	740	742	2	4.73	1.82	4.23	8.28
KHDDH563 742	742	744	2	4.58	0.95	3.29	6.43
KHDDH563 744	744	746	2	4.49	1.08	3.38	6.60
KHDDH563 746	746	748	2	2.92	0.94	2.43	4.75
KHDDH563 748	748	750	2	2.89	0.92	2.40	4.69
KHDDH563 750	750	752	2	2.24	0.72	1.86	3.65
KHDDH563 752	752	754	2	1.18	0.40	1.00	1.95
KHDDH563 754	754	756	2	1.94	0.52	1.51	2.96
KHDDH563 756	756	758	2	1.97	0.66	1.67	3.26
KHDDH563 758	758	760	2	3.24	1.76	3.42	6.68
KHDDH563 760	760	762	2	3.19	2.45	4.08	7.98
KHDDH563 762	762	764	2	0.96	0.50	0.99	1.94
KHDDH563 764	764	766	2	1.35	0.65	1.34	2.62
KHDDH563 766	766	768	2	1.44	0.79	1.52	2.98
KHDDH563 768	768	770	2	0.71	0.45	0.82	1.60
KHDDH563 770	770	772	2	1.57	0.78	1.58	3.09
KHDDH563 772	772	774	2	2.52	0.96	2.25	4.41
KHDDH563 774	774	776	2	3.17	1.86	3.48	6.81
KHDDH563 776	776	778	2	1.73	1.07	1.95	3.82
KHDDH563 778	778	780	2	0.70	0.54	0.89	1.75
KHDDH563 780	780	782	2	0.63	0.59	0.91	1.79

KHDDH563 782	784	2	0.41	0.59	0.80	1.56
KHDDH563 784	785.6	1.6	0.35	0.64	0.82	1.60
KHDDH563 785.6	788	2.4	0.14	0.33	0.40	0.78

Appendix 2: Statements and Disclaimers

Mineral Resources and Ore Reserves Reporting Requirements

The 2012 Edition of the *Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves* (the JORC Code 2012) sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves. The Information contained in this Announcement has been presented in accordance with the JORC Code 2012.

Competent Person Statement

The information in this announcement that relates to exploration results is based on information compiled by Dr Andrew Stewart, who is responsible for the exploration data, comments on exploration target sizes, QA/QC and geological interpretation and information. Dr Stewart, who is an employee of Xanadu and is a Member of the Australasian Institute of Geoscientists, has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as the "Competent Person" as defined in the 2012 Edition of the *Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves* and the *National Instrument 43-101*. Dr Stewart consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

Copper Equivalent Calculations

The copper equivalent (eCu) calculation represents the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent copper percentage with a metallurgical recovery factor applied. The copper equivalent calculation used is based off the eCu calculation defined by CSA in the 2018 Mineral Resource Upgrade.

Copper equivalent (eCu) grade values were calculated using the following formula:

$$\text{eCu} = \text{Cu} + \text{Au} * 0.62097 * 0.8235,$$

Where Cu = copper grade (%); Au = gold grade (gold per tonne (g/t)); 0.62097 = conversion factor (gold to copper); and 0.8235 = relative recovery of gold to copper (82.35%).

The copper equivalent formula was based on the following parameters (prices are in USD): Copper price = 3.1 \$/lb (or 6,834 \$ per tonne (\$/t)); Gold price = 1,320 \$ per ounce (\$/oz); Copper recovery = 85%; Gold recovery = 70%; and Relative recovery of gold to copper = 70% / 85% = 82.35%.

Forward-Looking Statements

Certain statements contained in this Announcement, including information as to the future financial or operating performance of Xanadu and its projects may also include statements which are 'forward-looking statements' that may include, amongst other things, statements regarding targets, estimates and assumptions in respect of mineral reserves and mineral resources and anticipated grades and recovery rates, production and prices, recovery costs and results, capital expenditures and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions. These 'forward-looking statements' are necessarily based upon a number of estimates and assumptions that, while considered reasonable by Xanadu, are inherently subject to significant technical, business, economic, competitive, political and social uncertainties and contingencies and involve known and unknown risks and uncertainties that could cause actual events or results to differ materially from estimated

or anticipated events or results reflected in such forward‐looking statements.

Xanadu disclaims any intent or obligation to update publicly or release any revisions to any forward‐looking statements, whether as a result of new information, future events, circumstances or results or otherwise after the date of this Announcement or to reflect the occurrence of unanticipated events, other than required by the *Corporations Act 2001 (Cth)* and the Listing Rules of the Australian Securities Exchange (ASX) and Toronto Stock Exchange (TSX). The words 'believe', 'expect', 'anticipate', 'indicate', 'contemplate', 'target', 'plan', 'intends', 'continue', 'budget', 'estimate', 'may', 'will', 'schedule' and similar expressions identify forward‐looking statements.

All 'forward‐looking statements' made in this Announcement are qualified by the foregoing cautionary statements. Investors are cautioned that 'forward‐looking statements' are not guarantee of future performance and accordingly investors are cautioned not to put undue reliance on 'forward‐looking statements' due to the inherent uncertainty therein.

For further information please visit the Xanadu Mines' Website at www.xanadumines.com.

Appendix 3: Kharmagtai Table 1 (JORC 2012)

Set out below is Section 1 and Section 2 of Table 1 under the JORC Code, 2012 Edition for the Kharmagtai project. Data provided by Xanadu. This Table 1 updates the JORC Table 1 disclosure dated 11 April 2019.

JORC TABLE 1 - SECTION 1 - SAMPLING TECHNIQUES AND DATA

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

Criteria	JORC Code explanation
Sampling techniques	<ul style="list-style-type: none"> ● <i>Nature and quality of sampling (e.g. cut channels, random c</i> ● <i>Include reference to measures taken to ensure sample repre</i> ● <i>Aspects of the determination of mineralisation that are Mate</i> ● <i>In cases where 'industry standard' work has been done this</i>
Drilling techniques	<ul style="list-style-type: none"> ● <i>Drill type (e.g. core, reverse circulation, open-hole hammer,</i>
Drill sample recovery	<ul style="list-style-type: none"> ● <i>Method of recording and assessing core and chip sample re</i> ● <i>Measures taken to maximise sample recovery and ensure r</i> ● <i>Whether a relationship exists between sample recovery and</i>
Logging	<ul style="list-style-type: none"> ● <i>Whether core and chip samples have been geologically and</i> ● <i>Whether logging is qualitative or quantitative in nature. Core</i> ● <i>The total length and percentage of the relevant intersections</i>

<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none">● <i>If core, whether cut or sawn and whether quarter, half or all</i>● <i>If non-core, whether riffled, tube sampled, rotary split, etc. a</i>● <i>For all sample types, the nature, quality and appropriatenes</i>● <i>Quality control procedures adopted for all sub-sampling stag</i>● <i>Measures taken to ensure that the sampling is representativ</i>● <i>Whether sample sizes are appropriate to the grain size of th</i>
<i>Quality of assay data and laboratory tests</i>	<ul style="list-style-type: none">● <i>The nature, quality and appropriateness of the assaying and</i>● <i>For geophysical tools, spectrometers, handheld XRF instrum</i>● <i>Nature of quality control procedures adopted (e.g. standards</i>
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none">● <i>The verification of significant intersections by either indepen</i>● <i>The use of twinned holes.</i>● <i>Documentation of primary data, data entry procedures, data</i>● <i>Discuss any adjustment to assay data.</i>
<i>Location of data points</i>	<ul style="list-style-type: none">● <i>Accuracy and quality of surveys used to locate drill holes (co</i>● <i>Specification of the grid system used.</i>● <i>Quality and adequacy of topographic control.</i>
<i>Data spacing and distribution</i>	<ul style="list-style-type: none">● <i>Data spacing for reporting of Exploration Results.</i>● <i>Whether the data spacing and distribution is sufficient to est</i>● <i>Whether sample compositing has been applied.</i>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none">● <i>Whether the orientation of sampling achieves unbiased sam</i>● <i>If the relationship between the drilling orientation and the ori</i>
<i>Sample security</i>	<ul style="list-style-type: none">● <i>The measures taken to ensure sample security.</i>
<i>Audits or reviews</i>	<ul style="list-style-type: none">● <i>The results of any audits or reviews of sampling techniques</i>

JORC TABLE 1 - SECTION 2 - REPORTING OF EXPLORATION RESULTS

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

Criteria	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> ● The Project comprises 2 Mining Licences (MV-17129A Oyut Ulaan and (MV-17387A Kharmagtai) ● Xanadu now owns 90% of Vantage LLC, the 100% owner of the Oyut Ulaan ● The Kharmagtai mining license MV-17387A is 100% owned by Oyut Ulaan ● The Mongolian Minerals Law (2006) and Mongolian Land Law (2002) govern
Exploration done by other parties	<ul style="list-style-type: none"> ● Previous exploration at Kharmagtai was conducted by Quincunx Ltd, Ivanhoe ● Previous exploration at Red Mountain (Oyut Ulaan) was conducted by Ivanhoe
Geology	<ul style="list-style-type: none"> ● The mineralisation is characterised as porphyry copper-gold type. ● Porphyry copper-gold deposits are formed from magmatic hydrothermal fluids
Drill hole Information	<ul style="list-style-type: none"> ● Diamond drill holes are the principal source of geological and grade data for ● See figures in this ASX/TSX Announcement. <p> <ul style="list-style-type: none"> ● The CSAMT data was converted into 2D line data using the Zonge CSAMT ● A nominal cut-off of 0.1% eCu is used in copper dominant systems for ident ● A nominal cut-off of 0.1g/t eAu is used in gold dominant systems like Golden ● Maximum contiguous dilution within each intercept is 9m for 0.1%, 0.3%, 0.6 ● Most of the reported intercepts are shown in sufficient detail, including maxi ● Informing samples have been composited to two metre lengths honouring th <p>The copper equivalent (eCu) calculation represents the total metal value for each</p> <p>Copper equivalent (CuEq or eCu) grade values were calculated using the following</p> $eCu \text{ or } CuEq = Cu + Au * 0.62097 * 0.8235,$ <p>Gold Equivalent (eAu) grade values were calculated using the following formula:</p> $eAu = Au + Cu / 0.62097 * 0.8235.$ <p>Where:</p> <p>Cu - copper grade (%)</p> <p>Au - gold grade (g/t)</p> <p>0.62097 - conversion factor (gold to copper)</p> <p>0.8235 - relative recovery of gold to copper (82.35%)</p> <p>The copper equivalent formula was based on the following parameters (prices are</p> <ul style="list-style-type: none"> ● Copper price - 3.1 \$/lb (or 6834 \$/t) ● Gold price - 1320 \$/oz ● Copper recovery - 85% ● Gold recovery - 70% ● Relative recovery of gold to copper = 70% / 85% = 82.35%. </p>
Data Aggregation methods	
Relationship between mineralisation on widths and intercept lengths	<ul style="list-style-type: none"> ● Mineralised structures are variable in orientation, and therefore drill orientati ● Exploration results have been reported as an interval with 'from' and 'to' stat

Diagrams

- See figures in the body of the report.

Balanced

reporting

Other
substantive
exploration
data

- Resources have been reported at a range of cut-off grades, above a minimum

- Extensive work in this area has been done and is reported separately.

Further
Work

- The mineralisation is open at depth and along strike.
- Current estimates are restricted to those expected to be reasonable for open
- Exploration on going.

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