

# DRILLING COMMENCED AT DYNASTY GOLD PROJECT

## Set to Test Porphyry, Breccia and Epithermal Style Gold Mineralisation

Titan Minerals Limited (**Titan** or the **Company**) (**ASX:TTM**) is pleased to provide an update on drilling activities at its Cerro Verde and Kaliman Porphyry (**Kaliman**) prospects, at the Dynasty Gold Project (**Dynasty**) in southern Ecuador.

### Key Highlights include:

- Drilling has commenced to test extensions to Kaliman porphyry gold-copper and Brecha-Comanche epithermal vein hosted gold mineralisation at the Dynasty Project
- Drilling designed to target extensions to significant intersections returned from Titan's 2021 drilling, with three main targets being tested:
  1. Depth extensions to high grade epithermal gold at Brecha-Comanche, Cerro Verde prospect, where previous drilling returned significant intersections including:
    - **3.05m @ 16.48 g/t Au, 61.66 g/t Ag** from 142.15m in CVD081; &
    - **7.07m @ 5.90 g/t Au, 8.90 g/t Ag** from 179.93m in CVD089.
  2. Lateral and depth extensions to the large-scale Kaliman gold-copper porphyry prospect, where previous drilling intersected:
    - **102.7m @ 1.48 g/t Au, 4.50 g/t Ag, 0.09 % Cu** from 46.5 metres in CVD072.
  3. Potential overlapping epithermal gold and porphyry gold-copper mineral systems identified in previous drilling which intersected:
    - **7.27m @ 9.89 g/t Au, 28.0 g/t Ag, 0.24 % Cu** from 118.78m in CVD033.

### Titan's CEO Melanie Leighton commented:

*"We are very excited to have commenced drilling at Dynasty with a suite of compelling targets set to feature in the drill program".*

*"Titan's technical team have made considerable advances in their understanding of mineralisation controls at the Cerro Verde prospect at Dynasty, with several targets set to be tested including epithermal vein hosted gold at the Brecha-Comanche target and extensive porphyry gold-copper mineralisation at the Kaliman prospect."*

*"Drilling has been designed to extend mineralisation identified in Titan's 2021 drilling, where several strongly mineralised intervals remain open- both epithermal and porphyry."*

*"Generative work programs including mapping and surface geochemical sampling continue to unveil new mineralised areas at the Dynasty Project, adding further support to the potential to add considerable ounces to the existing resource through systematic exploration."*

*"We look forward to providing updates as exploration work programs and drilling activities progress, and as results are received."*

## Dynasty Drilling Activities Set to Commence

The Company is pleased to provide an update on drilling activities which have now commenced at the Company's 100% held Dynasty Gold Project (**Dynasty**) in southern Ecuador.

Drilling has been designed to test extensions to mineralisation identified in Titan's 2021 drilling campaign, where significant epithermal gold and porphyry gold-copper mineralisation remains open both laterally and at depth.

Titan's technical team have spent several months studying the vein and porphyry systems through systematic surface mapping and diamond drill core relogging, culminating in the creation of an integrated and robust 3D geological model to facilitate the drill design.

Refer to Figure 1 for an overview plan which highlights the areas of mineralisation contained within the NI43-101 Resource, and location of each of the prospects (targets) at the Dynasty Gold Project that are set to feature in the proposed drill testing.

Three main targets are proposed to be tested by the upcoming drilling program:

### 1. **Depth extensions to high grade epithermal gold mineralisation:**

Mineralisation at the Brecha-Comanche Vein target (Cerro Verde prospect) is hosted within a porphyritic diorite unit which intrudes the host andesitic volcanic sequence. Alteration assemblages in the epithermal system vary from phyllic (quartz-sericite-pyrite) to argillic (illite-smectite).

High grade gold and silver mineralisation is associated with an intermediate sulphidation system with average vein widths of 2 to 8 metres observed in drilling, and gold values ranging from 2 to 20 g/t Au.

Previous drilling has intersected several high-grade epithermal gold veins with significant intersections including:

- **3.05m @ 16.48 g/t Au, 61.66 g/t Ag** from 142.15m; &
- **12.08m @ 2.54 g/t Au, 7.41 g/t Ag** from 196.15m in CVD081.
- **11.46m @ 2.58 g/t Au, 34.63 g/t Ag** from 107.92m; &
- **8.44m @ 1.91 g/t Au, 6.75 g/t Ag** from 129.56m; &
- **7.07m @ 5.90 g/t Au, 8.90 g/t Ag** from 179.93m in CVD089.

*\*Refer to ASX releases dated 28 Feb 2022 and 5 May 2022 for further details on CVD081 and CVD089.*

It is postulated that epithermal veining intersected at the Brecha, Mango and Comanche veins coalesce at depth to form a broader, more coherent vein system. Drilling has been designed to test down dip extensions of gold mineralisation which remain open and untested below a depth of approximately 250 metres vertical.

### 2. **Lateral extensions to the Kaliman gold-copper porphyry mineralisation:**

The potential scale of the Kaliman gold-copper porphyry system was unveiled by drilling completed in 2021 by Titan, where several broad zones of gold-copper porphyry mineralisation were intersected from shallow depths.

Significant intersections include:

- **102.7m @ 1.48 g/t Au, 4.50 g/t Ag, 0.09% Cu** from 46.5 metres in CVD072
- **115m @ 0.44 g/t Au, 7.08 g/t Ag, 0.18 % Cu** from surface; &
- **161m @ 0.46 g/t Au, 1.19 g/t Ag, 0.10 % Cu** from 146m in CVD057.
- **150m @ 0.32 g/t Au, 0.94 g/t Ag, 0.09% Cu** from surface in CVD063
- **103.2m @ 0.35 g/t Au, 0.59 g/t Ag, 0.07% Cu** from 540.8 metres in CVD037
- **129.42m @ 0.36 g/t Au, 0.98 g/t Ag, 0.09% Cu** from 298 metres in CVD071

*\*Refer to ASX releases dated 28 Feb 2022 and 5 May 2022 for further details on the above holes. Note that the above listed significant intersections differ from those initially released due to the contemplation of porphyry mineralisation and a lower reporting cut-off of 0.1 g/t Au (previously 0.5 g/t Au)*

The orientation of A and B veinlets in the Kaliman porphyry are observed to be north-northwest (NNW) coinciding with the orientation of the quartz diorite porphyry intrusion. Epithermal veins observed in the Kaliman porphyry have an orientation similar to the porphyry A and B veins, however they also exhibit a second northeast-southwest (NE-SW) orientation. It appears that many porphyry veins and/ or structures have been replaced or overprinted by later epithermal quartz veins.

Mineralisation is closely associated with the presence of A and B veinlets (quartz- chalcopyrite-pyrite ± magnetite), which have been cross-cut by later D veinlets (sericite-chlorite-pyrite-chalcopyrite).

The proposed drilling has been designed to test the lateral extents of the quartz diorite porphyry hosted gold-copper mineralisation, with the structural controls considered to optimise drillhole design.

### **3. Potential overlapping epithermal porphyry gold-copper mineral systems:**

The potential for overlapping mineralised epithermal and porphyry systems was first identified in Titan's drilling directed to the zone between the Brecha-Comanche epithermal vein mineralisation and the Kaliman porphyry gold-copper mineralisation.

Evidence for strong overlapping mineral systems is observed in the following intersection returned from Titan's drilling in 2021:

- **7.27m @ 9.89 g/t Au, 28.0 g/t Ag, 0.24% Cu** from 118.78m in CVD033.

*\*Refer to ASX release dated 17 December 2021 for full details on drillhole CVD033*

The strong gold, silver and copper mineralisation intersected in drillhole CVD033 is open in all directions, with the potential to extend the wide and shallow mineralisation set to be tested by the upcoming drilling program.

The Company looks forward to providing updates as drilling progresses and as results are received.

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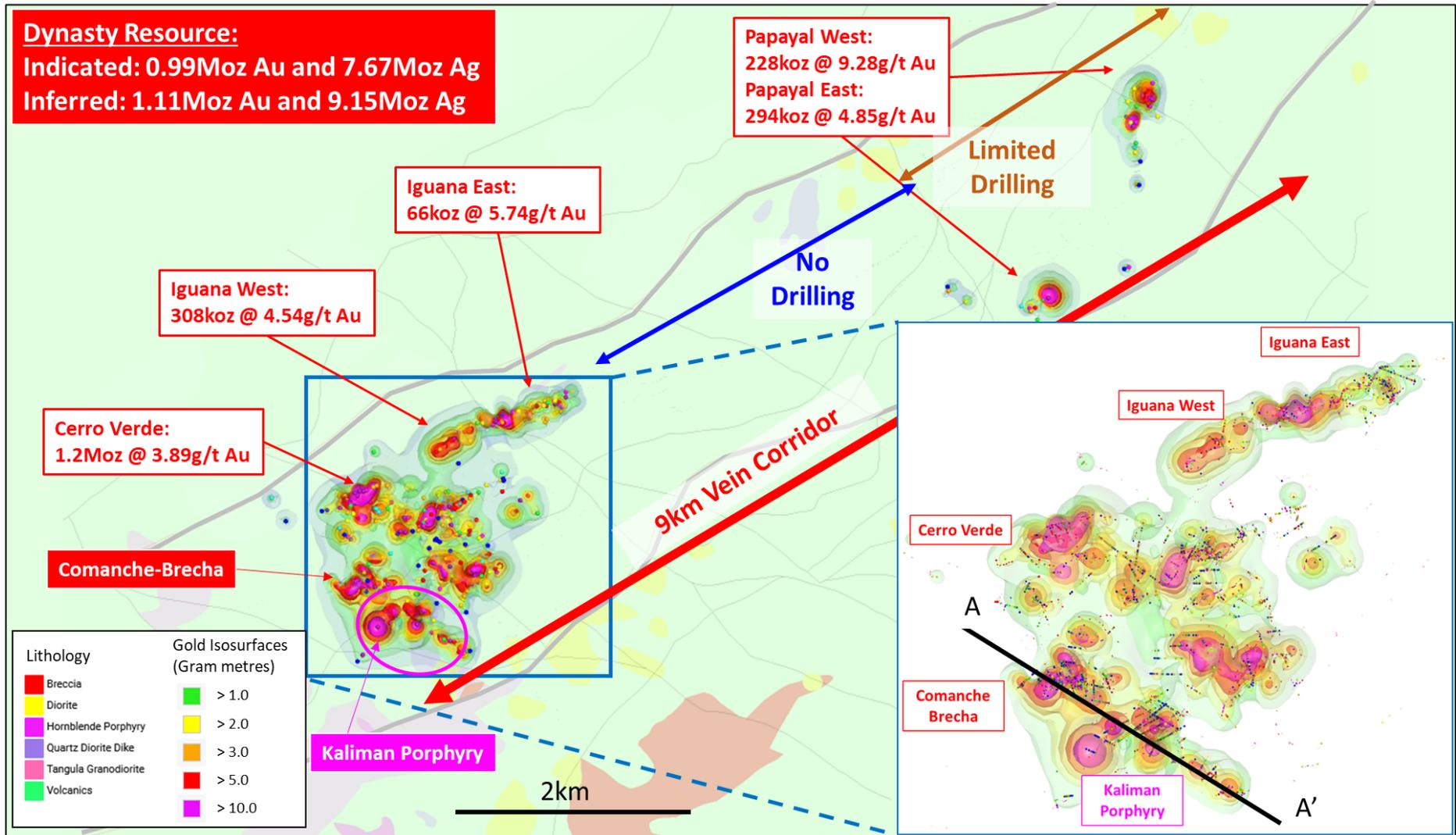


Figure 1: Plan view of the Dynasty Project displaying interpreted surface geology, foreign resource areas, prospects, gold gram metre isosurfaces, extent of drilling. Inset shows gold isosurfaces, drill traces and long section line A-A' as referred to in Figure 2.

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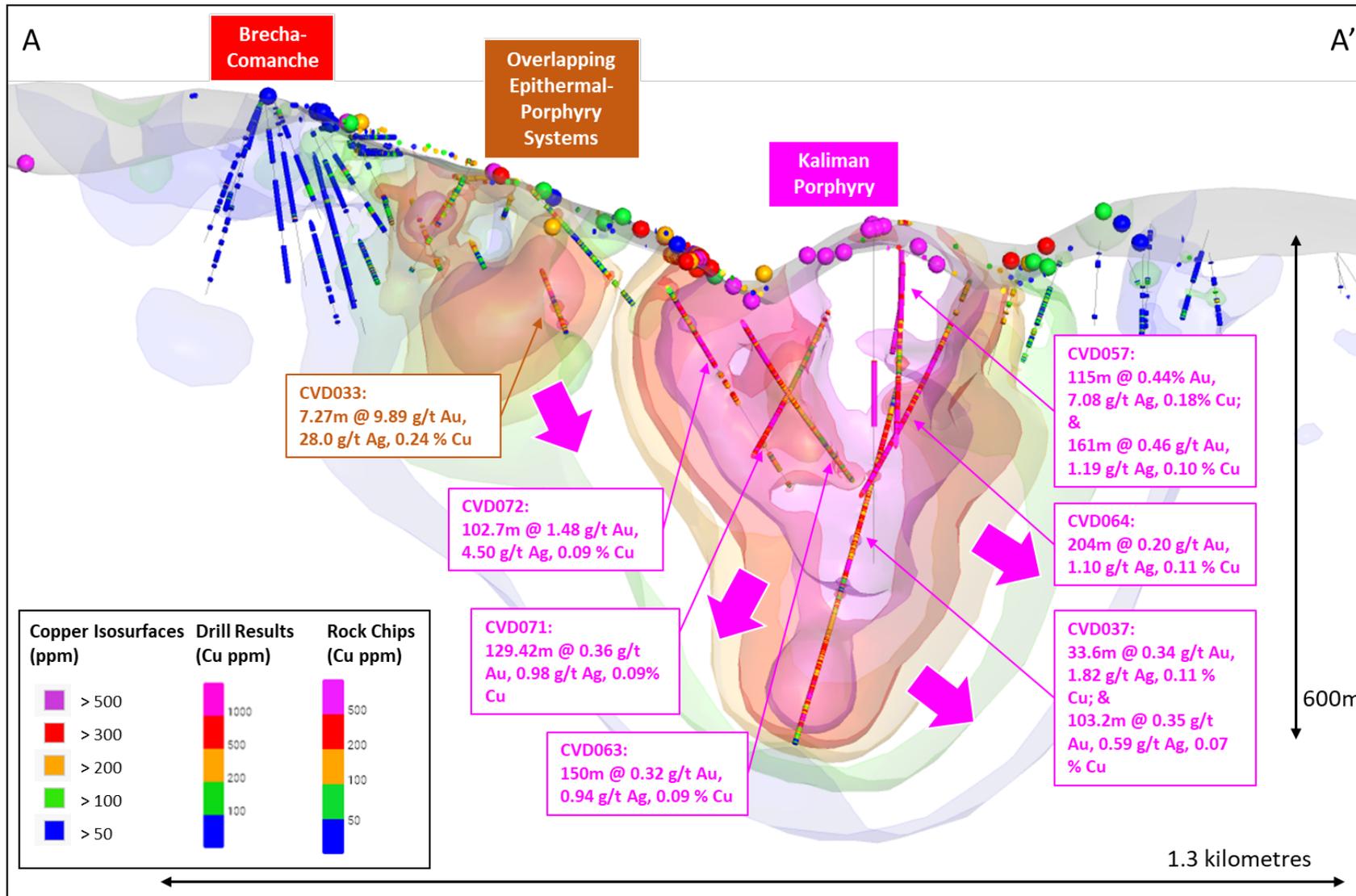


Figure 2: Long Section through Brecha-Comanche and Kaliman porphyry mineral systems, displaying drilling, copper isosurfaces and significant intersections

## About the Dynasty Gold Project

The Dynasty Gold Project is an advanced stage exploration project comprising five contiguous concessions and is 139km<sup>2</sup> in area. Three of these concessions received Environmental Authorisation in 2016 and are fully permitted for exploration and small-scale mining.

Located in a major flexure of the Andean Terrane, the Dynasty Gold Project is situated within a corridor of mineralisation extending from Peru through northern Ecuador that is associated with early to late Miocene aged intrusions. The majority of porphyry copper and epithermal gold deposits in southern Ecuador are associated with magmatism in this age range, with a number of these younger intrusions located along the margin of the extensive Cretaceous aged Tangua Batholith forming a favourable structural and metallogenic corridor for intrusion activity where Titan minerals holds a significant land position in southern Ecuador.

Exploration works at the Dynasty Gold Project have outlined an extensive zone of epithermal veining over a nine kilometres strike and over one kilometre in width. There is also considerable potential for porphyry gold, silver and copper mineralisation as identified by surface mapping, trenching and drilling at the Kaliman Porphyry prospect.

Previous explorers had estimated a Canadian NI 43-101 resource estimate (referred to as a Foreign Resource) of 14.4 million tonnes at 4.5 g/t gold and 36 g/t silver for a contained 2.1M ounces of gold and 16.8M ounces of silver. This resource estimate was compiled using a dataset of 1,160 trenches and 26,733 metres of diamond core. It was estimated by polygonal methods which are not yet considered JORC 2012 compliant.

The Dynasty Foreign Resource has been validated by trial mining conducted in 2019, where approximately 600,000 tonnes of ore was mined at a grade of 3.46g/t gold. Reconciliation of mined material versus the historical resource resulted in 169% tonnes at 85% of the estimated grade, for 40% more gold.

The resource is estimated over three main prospects: Papayal; Iguana; and Cerro Verde (refer to Figure 1). The information in this announcement relating to Mineral Resource Estimates for the Dynasty Gold Project is a foreign estimate and is not reported in accordance with the JORC Code. A competent person has not done sufficient work to classify this foreign estimate as a mineral resource in accordance with the JORC Code and it is uncertain that following further exploration work this foreign estimate will be able to be reported as a mineral resource in accordance with the JORC Code (refer to ASX announcement dated 30 April 2020 and Notes to Foreign Mineral Resource Estimate below).

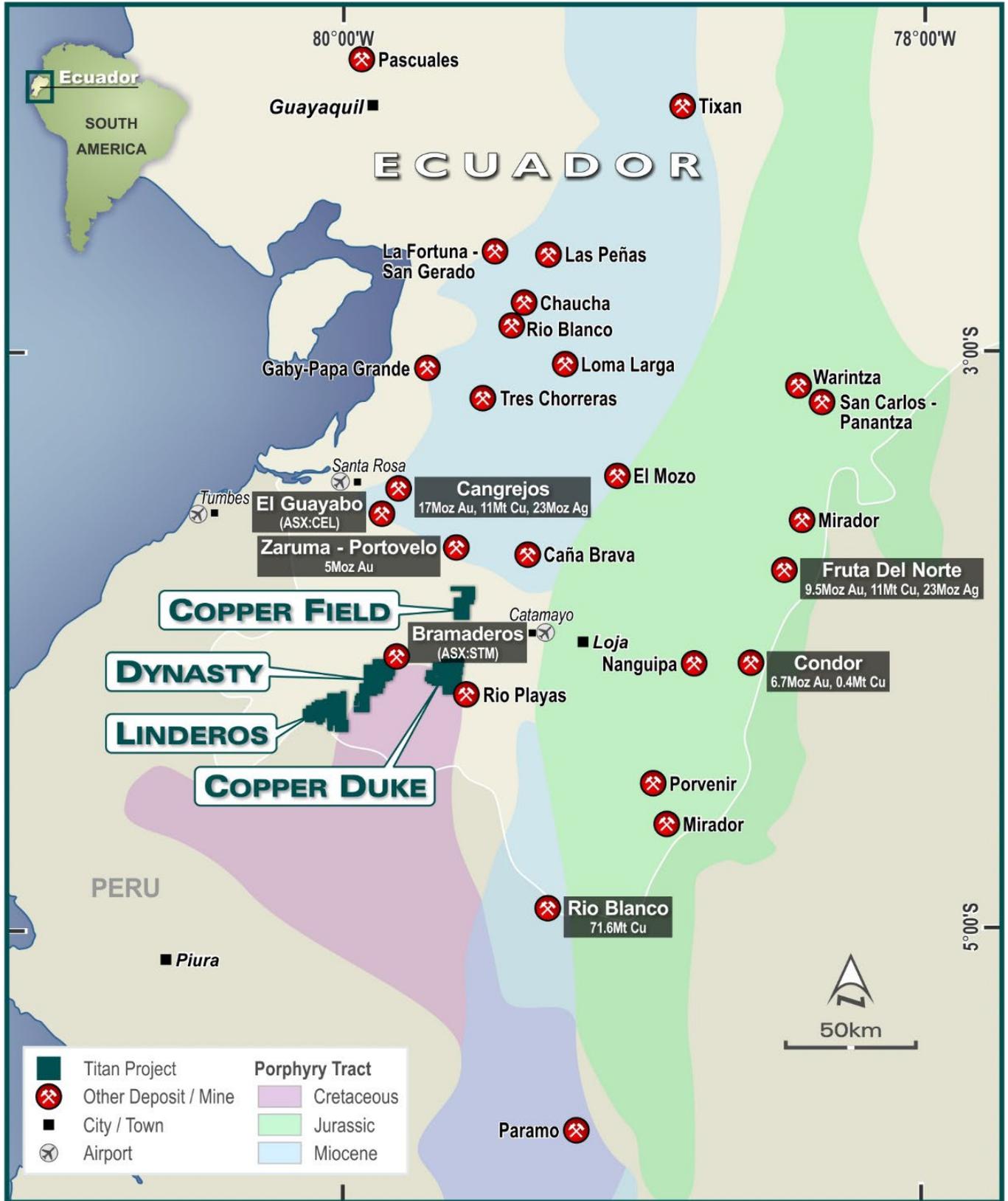


Figure 3: Titan Minerals southern Ecuador Projects, the metallogenic belts of Ecuador and peer deposits

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### ENDS-

Released with the authority of the Board.

For further information on the company and our projects, please visit: [www.titanminerals.com.au](http://www.titanminerals.com.au)

### Contact details:

Investor Relations: Australia

**Melanie Leighton – Chief Executive Officer**

**E:** [melanie@titanminerals.com.au](mailto:melanie@titanminerals.com.au)

**Ph:** +61 8 6375 2700

### Competent Person's Statements

The information in this report that relates to Exploration Results is based on and fairly represents information compiled by Ms Melanie Leighton, who is an experienced geologist and a Member of The Australian Institute of Geoscientists. Ms Leighton is a full-time employee at Titan Minerals and has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which she is undertaking to qualify as a Competent Person as defined in the JORC 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources, and Ore Reserves'. Ms Leighton consents to their inclusion in the report of the matters based on this information in the form and context in which it appears.

### Notes to Foreign Mineral Resource Estimate

The information in this document relating to Mineral Resource Estimates for the Dynasty Gold Project have been extracted from the ASX announcement dated 30 April 2020 (Initial Announcement).

Titan confirms that it is not in possession of any new information or data that materially impacts on the reliability of the Mineral Resource Estimates for the Dynasty Gold Project and included in the Initial Announcement. Titan confirms that the supporting information provided in the Initial Announcement continues to apply and has not materially changed.

The information in this announcement relating to Mineral Resource Estimates for the Dynasty Gold Project is a foreign estimate and is not reported in accordance with the JORC Code. A competent person has not done sufficient work to classify this foreign estimate as a mineral resource in accordance with the JORC Code and it is uncertain that following further exploration work that this foreign estimate will be able to be reported as a mineral resource in accordance with the JORC Code.

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## APPENDIX A

### Dynasty Significant Drill Intersections

Hole ID	Easting (UTM)	Northing (UTM)	Elevation (m)	Hole depth	azimuth	dip		from	to	width	Au (g/t)	Ag (g/t)	Cu (%)
CVD033	621412	9543262	1220	179.99	178	-45		118.78	126.05	7.27	9.89	28.03	0.24
CVD037	621846	9543104	1242	662.39	228	-65		439	427.63	33.63	0.34	1.82	0.10
							&	540.8	644.0	103.2	0.34	0.59	0.07
CVD057	621743	9542970	1181	422.05	205	-70		0	115	115	0.44	7.08	0.18
CVD063	621531	9542959	1128	394.29	59	-45		0.0	150.0	150.0	0.32	0.94	0.09
CVD064	621878	9543033	1202	238.55	462	-53		146	350	204	0.20	1.10	0.11
CVD071	621787	9543145	1224	446.45	230	-45		298	427.4	129.4	0.36	0.98	0.10
CVD072	621461	9542991	1,163	487.11	064	-45		46.50	149.20	102.7	1.48	4.50	0.09

NB. Collar locations are given in WGS84 Datum

APPENDIX B

Dynasty Project - 2012 JORC Table 1

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>Nature and quality of sampling (e.g., 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. In cases where 'industry standard' work has been done this would be relatively simple (e.g., '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 (e.g., submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>Diamond drilling method was used to obtain HTW and NTW core (71.4/56.23 mm diameter respectively) for density and chemical analyses. ½ or ¼ core was submitted for analysis.</li> <li>Downhole survey and core orientation tools are used, Diamond core is halved with a diamond saw to ensure a representative sample.</li> <li>Channel sampling is completed as representative cut samples across measured intervals cut with hammer or hammer and chisel techniques.</li> <li>Samples were crushed to better than 70% passing a 2mm mesh and split to produce a 250g charge pulverised to 200 mesh to form a pulp sample.</li> <li>30g charges were split from each pulp for fire assay for Au with an atomic absorption (AA) finish and samples exceeding 10g/t Au (upper limit) have a separate 30g charge split and analysed by fire assay with a gravimetric finish. Samples returning &gt;10ppm Au from the AA finish technique are re-analysed by 30g fire assay for Au with a gravimetric finish.</li> <li>An additional charge is split from sample for four acid digests with ICP-MS reporting a 48-element suite.</li> <li>Within the 48 elements suite, overlimit analyses of a 5-element suite are performed with an ore grade technique (ICP-AES) if any one element for Ag, Pb, Zn, Cu, Mo exceeds detection limits in the ICP-MS method.</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li>Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., 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>Drilling HTW diameter core with standard tube core barrels retrieved by wire line, reducing to NTW diameter core as required at depth</li> <li>Drill core is oriented by Reflex ACT III and True Core tools,</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>Diamond sample recovery is recorded on a run-by-run basis during drilling with measurements of recovered material ratioed against drill advance.</li> <li>Diamond core is split in weathered material, and in competent unweathered/fresh rock is cut by a diamond saw to maintain a representative sample for the length of the sample interval.</li> <li>No correlation between sample recovery and grade is observed.</li> </ul>
<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> </ul>	<ul style="list-style-type: none"> <li>Diamond core samples are logged in detail, with descriptions and coded lithology for modelling purposes, with additional logging comprised of alteration, geotechnical, recovery, and structural logs including measurements based on core orientation marks</li> </ul>

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	<ul style="list-style-type: none"> <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>	<p>generated from a Reflex ACTIII downhole survey tool.</p> <ul style="list-style-type: none"> <li>Logging is predominantly qualitative in nature but including visual quantitative assessment of sulphide and quartz content included in text comments.</li> <li>Core photographs are systematically acquired for whole core with sample intervals, orientation line prior and after the sampling in both wet and dry form.</li> <li>The total lengths of all reported drill holes have been logged geologically and data is uploaded to a self-validating database. ½ cut and ¼ cut core material is retained from diamond drilling for re-logging and audit purposes.</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 cores 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>Diamond core is split or cut in weathered profile depending on hardness and competency of the core and cut with a diamond saw in fresh rock. Weathered, faulted, and fractured diamond core, prior to cutting, are docked, and covered with packing tape to ensure a representative half sample is taken.</li> <li>A cutline on core is systematically applied for cutting and portion of core collected for analysis is systematic within each hole. Diamond core sample recovery are reported as being completed in accordance with best practices for the time of acquisition and considered to be appropriate and of good quality.</li> <li>Sample size studies have not been conducted but sample size used are typical of methods used for other Andean deposits of similar mineralisation styles.</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 (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e., lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>Assaying and Laboratory procedures reported are completed by certified independent labs and considered to be appropriate and in accordance with best practices for the type and style of mineralisation being assayed for. Gold Fire Assay technique used is a total recovery technique for gold analysis. This technique is considered an appropriate method to evaluate total gold and silver content of the samples.</li> <li>No geophysical tools used in relation to the reported exploration results.</li> <li>In addition to the laboratory's own quality control ("QC") procedure(s), Titan Minerals Ltd- regularly inserts its own Quality assurance and QC samples, with over 15% of samples in reported results corresponding to an inserted combination of certified reference materials (standards), certified blank material, field duplicate, lab duplicates (on both fine and coarse fraction material).</li> </ul>
<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>Reported intersections are logged by professional geologists in Ecuador and data validated by a senior geologist.</li> <li>Twin holes have not been used in the reported exploration results. The use of twinned holes is anticipated in follow-up drilling.</li> <li>Original laboratory data files in CSV and locked PDF formats are stored together with the merged data.</li> <li>All drilling, and surface data are stored in a self-validating Microsoft Access database</li> <li>No adjustment to data is made in the reported results</li> </ul>

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Criteria	JORC Code explanation	Commentary
<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>Reported drill collars and channel samples are located with an RTK GPS survey unit with sub-centimetre reporting for the purpose of improved confidence in resource estimation work. A gyroscopic survey tool is used for downhole surveys</li> <li>All surveyed data is collected and stored in WGS84 datum.</li> <li>Topographic control is ground survey quality and reconciled against Drone platform survey data with 1m pixel resolution. Assessed to be adequate for the purpose of resource estimation</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>Data spacing for reported Diamond drilling varies by prospect, targeting a nominal 80m lateral spacing and 40m vertical spacing for data acquisition</li> <li>Reported Channel sampling is collected on 10m to 20m spacing depending on resolution of structural information deemed necessary by the geology team.</li> <li>Data spacing is anticipated to support mineral resource estimation for the inferred category, with data spacing and distribution for higher confidence resource estimation categories to be defined with further modelling and geostatistical analysis work.</li> <li>No Sample compositing has been applied in reported exploration results.</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<p>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</p> <ul style="list-style-type: none"> <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>The orientation of diamond drilling and trenching is perpendicular to mapped orientation of primary vein target observed in outcrop where possible. Drilling is completed on multiple azimuths as fan drilling with multiple holes collared from a single drill site to minimise surface disturbance, which will result in some oblique intercepts to vein orientations. The true thickness of intercepts will be accounted for following structural analysis of oriented core and 3D modelling of veins. All results in relation to this report are drilled thickness and should not be interpreted as true thickness at this time.</li> <li>No bias is considered to have been introduced by the existing sampling orientation.</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>Samples were collected by Titan Minerals geologists and held in a secured yard prior to shipment for laboratory analysis. Samples are enclosed in polyweave sacks for delivery to the lab and weighed individually prior to shipment and upon arrival at the lab. Sample shipment is completed through a commercial transport company with closed stowage area for transport.</li> </ul>
<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>No audits or reviews of reported data completed outside of standard checks on inserted QAQC sampling.</li> </ul>

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## Section 2 - Reporting of Exploration Results

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>Titan Minerals Ltd, through its indirect wholly owned Ecuadorian subsidiaries, holds a portfolio of exploration properties in the Loja Province of Ecuador. Amongst these, Titan holds a 100% interest in the Pilo 9, Zar, Zar 1, Zar 3A and Cecilia 1 concessions forming the Dynasty Project and totalling an area of 13,909 hectares.</li> <li>Mineral concessions in Ecuador are subject to government royalty, the amount of which varies from 3% to 4% depending on scale of operations and for large scale operations (&gt;1,000tpd underground or &gt;3,000tpd open pit) is subject to negotiation of a mineral/mining agreement.</li> <li>Pilo 9, Zar and Zar 1 are subject to a 3% royalty payable to the Ecuador Government as part of the Small Scale Mine Licensing regime currently issued in favour of the Dynasty Goldfield Project but may be subject to change in the event economic studies after exploration indicate a need to apply for a change of regime.</li> <li>Concessions, Zar 3A and Cecilia 1 have not yet completed the environmental permitting process and require the grant of an Environmental Authorisation.</li> <li>Mineral concessions require the holder to (i) pay an annual conservation fee per hectare, (ii) provide an annual environmental update report for the concessions including details of the environmental protection works program to be followed for the following year. These works do not need approval; and (iii) an annual report on the previous year's exploration and production activity. Mineral Concessions are renewable by the Ecuadorian Ministry of Oil, Mining and Energy in accordance with the Mining Law on such terms and conditions as defined in the Mining Law.</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>	<p>Dynasty Gold Project Exploration done by other parties set out in further detail in the Titan ASX release dated 19 May 2020, and summarised below:</p> <ul style="list-style-type: none"> <li>1977, the Spanish-Ecuadorian joint venture company, Enadimsa, claimed 1,350ha in the La Zanja (Cerro Verde) area for exploration - no results included in reporting.</li> <li>During the 1970s the United Nations explored the "Curiplaya" area, 2 km east of the Dynasty Project. Copper and gold were detected in small quantities, data not included in reporting.</li> <li>1991–92, BHP Exploration Ltd. covered the general area with concessions, but the tenements eventually lapsed after minimal work.</li> <li>2001 to 2003, a private prospecting company, Ecuasaxon, undertook investigations in the general area and discovered anomalous gold and silver in quartz-sulphide veins in what is now the concession area.</li> <li>2003 until 2007 Dynasty Mining and Metals (later Core Gold) completed mapping, limited ground geophysical surveys and exploration sampling activity including 201 drill holes totalling 26,733.5m and 2,033 rock channel samples were taken from 1,161 surface trenches at Cerro Verde, Iguana Este, Trapichillo and Papayal in support of a maiden resource estimation.</li> <li>2008 to 2009, the Ecuadorian Government introduced an exploration moratorium, where on April 18, 2008, Ecuador's Constitutional Assembly passed a Constituent Mandate</li> </ul>

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		<p>resolution (the "Mining Mandate"), which provided, among other provisions, for the suspension of mineral exploration activities for 180 days, or until a new Mining Act was approved. The Mining Act was published in late January 2009. The mining regulations to supplement and provide rules which govern the Mining Act were issued in November 2009, after which time the Mining Act and Regulations (collectively, the "Mining Law") were enacted.</p> <ul style="list-style-type: none"> <li>2017 to 2020 Core Gold Inc. (formerly Dynasty Mining and Metals) commenced small scale mining on a small portion of the Dynasty Project. Operations exposed a number of veins of the Canadian NI 43-101 compliant resource estimate, and operations discovered several veins of varying orientations not previously identified in drill and trench exploration activities requiring further exploration activity to quantify.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting, and style of mineralisation.</i></li> </ul>	<ul style="list-style-type: none"> <li>Regionally, the Dynasty gold project lies within the compressional Inter-Andean Graben that is bounded by regional scale faults. The graben is composed of thick Oligocene to Miocene aged volcano- sedimentary sequences that cover the Chaucha, Amotape and Guamote terrains. This structural zone hosts several significant epithermal, porphyry, mesothermal, S-type granitoid, VHMS and ultramafic/ophiolite precious metal and base metal mineral deposits.</li> <li>At the project scale, the intermediate volcanic hosted mineralised veins mainly occur along a faulted zone near and sub-parallel to the contact with the Cretaceous aged Tangula Batholith that extends north from Peru and is found outcropping in the east and south of the concessions.</li> <li>Porphyry intrusion style mineralisation hosting gold, silver and copper mineralisation has also been mapped and intersected by drilling by at the Kaliman porphyry within the Dynasty Project area.</li> <li>Gold occurs in its native form along with sulphides, including pyrite, sphalerite, galena, arsenopyrite, marcasite, chalcopyrite and bornite.</li> </ul>
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li><i>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:</i> <ul style="list-style-type: none"> <li><i>easting and northing of the drill hole collar</i></li> <li><i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li><i>dip and azimuth of the hole</i></li> <li><i>down hole length and interception depth</i></li> <li><i>hole length.</i></li> </ul> </li> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>Tabulation of requisite information for all reported drilling results with significant intercepts validated by Titan geologists and referenced in this report are included in Appendix A of this report.</li> <li>Total number of drill holes and trench sites included in this report and located in graphics included in the report.</li> <li>Material drill holes tabulated contain significant intercepts with gold grades exceeding 0.1g/t gold and are included in Appendix A of this report. No drill holes are excluded from maps or graphics in the report and all drill locations with or without material significant intercepts are included in maps and diagrams. Tabulation of requisite information for all reported drilling results with significant intercepts announced in this report are included in Appendix A.</li> </ul>
<b>Data aggregation</b>	<ul style="list-style-type: none"> <li><i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off</i></li> </ul>	<ul style="list-style-type: none"> <li>No high-grade assay cut was applied to reported gold results. In the case of silver, the initial upper detection limit of the four-acid digest used is 100ppm, and an overlimit</li> </ul>

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<b>methods</b>	<p><i>grades are usually Material and should be stated</i></p> <p><i>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.</i></p> <ul style="list-style-type: none"> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<p>analysis method with an upper detection limit of 1,500ppm is used.</p> <ul style="list-style-type: none"> <li>Lower cut-off for reported significant intercepts is 0.1g/t Au with up to 5m of internal dilution (results with &lt;0.1g/t Au or un-sampled intervals where null values are taken as a zero gold grade in calculating significant intercepts) are allowed within a reported intercept.</li> <li>Significant Intercepts in Appendix A are reported for aggregate intercepts of sample intervals that are weight averaged by length of sample for results above a 0.1g/t gold cut-off.</li> <li>No metal equivalent reporting is applicable to this announcement</li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., 'down hole length, true width not known').</i></li> </ul>	<ul style="list-style-type: none"> <li>Reported intersections are measured sample lengths. Reported drill intersections are of unknown true width, further drilling and modelling of results is required to confirm the projected dip(s) of mineralised zones.</li> <li>Reported intercepts are drilled thickness and should not be interpreted as true thickness unless otherwise indicated</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>Included in body of report as deemed appropriate by the competent person</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li><i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced avoiding misleading reporting of Exploration Results.</i></li> </ul>	<ul style="list-style-type: none"> <li>All material exploration results for drilling are included in this report, and location of all results are included in Figures provided in their entirety.</li> <li>All results above a 0.1g/t lower cut-off are included in this report, and no upper cut-off has been applied.</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>No other available datasets are considered relevant to reported exploration results. Historical exploration results include orientation studies for ground magnetics, IP Geophysics, and soil sampling grids, however each of these surveys are limited in scale relative to the project and are not considered material to assess potential of the larger project area.</li> <li>Bulk density tests have been completed on areas related to the reported exploration results.</li> </ul>
<b>Further work</b>	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>Additional drilling is planned to better define structural controls on mineralisation and assess open ended mineralisation on multiple mineralised corridors within the project area. Further mapping and sampling are to be conducted along strike of reported work to refine and prioritise targets for drill testing.</li> <li>Included in body of report as deemed appropriate by the competent person</li> </ul>