

Further gravity data driven breakthroughs at Big Springs

HIGHLIGHTS:

- Structural detection algorithm applied to 2020 ground gravity data at Big Springs.
- Enhanced structural detail delineated with this automated approach, including detection of key smaller structures that present close relationships with existing gold mineralisation.
- Further affirmation that gold mineralisation at Big Springs commonly occurs at intersections between NNE-SSW and E-W faults.
- Delivers particularly valuable targeting insight over those areas of Big Springs with minimal or no drilling to date.
- Sharper structural delineations being incorporated into the comprehensive targeting study that is set to guide exploration activities in 2021 and beyond.
- Overview of 2021 field program expected to be released in the next two weeks incorporating results from the 2020 field program.

Anova Metals Limited (ASX: AWV) (**Anova** or the **Company**) is pleased to announce that significantly enhanced detail on various structures that control gold mineralisation has been extracted from enhanced gravity data processing at its 100% owned Big Springs Gold Project in Nevada (**Big Springs**).

The raw data the subject of this further study is the comprehensive gravity data survey completed in 2020 (see AWV announcement, 12 October 2020). This gravity data is comprised of 1,540 unique stations including 94 remote stations designed to provide larger scale data (see Figure 1).

Fathom Geophysics was contracted to undertake the enhanced gravity data filtering and processing (see Figure 2). The Bouguer anomaly grid was used as input to the data processing and structure detection routine. Three base wavelengths were used (50m, 100m, and 200m) for the purpose of detecting different scales of structure. The applied structure detection algorithm used a unique, cutting edge grid based method. In contrast with traditional data processing, this automated approach has the advantage of eliminating any subjectivity introduced by human bias.

As shown in Figure 3 and 4, greater structural detail is detected using the Fathom algorithmic approach. Structures of interests are extracted, including fundamental faults (potentially pathways for fluids conduits) and, of particular interest, the secondary/ subtle faults (presenting close relations with gold mineralisation).

Key structural controls on gold mineralisation have been affirmed, with gold mineralisation commonly occurring at the location of intersections between NNE-SSW and E-W faults. This study



has provided highly valuable insight for the current overarching targeting study, in particular with respect to areas with minimal or no existing drill hole information.

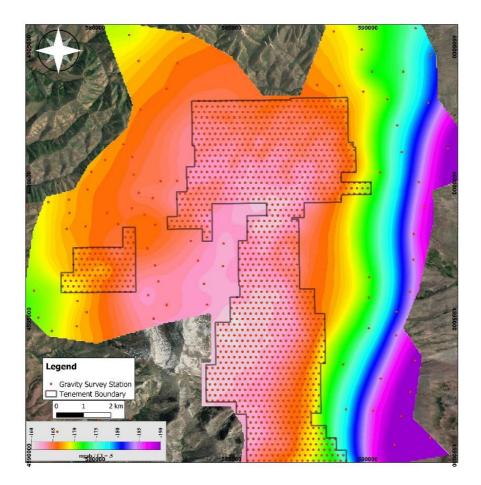


Figure 1: Completed Bouguer (CBA) Gravity map with completed ground gravity stations on top.



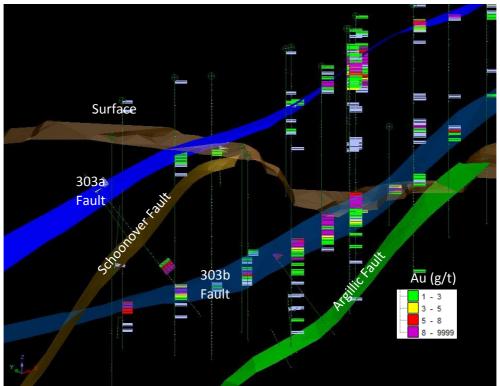


Figure 2: Gold mineralisation at North Sammy, Big Springs, has a close relationship with faults. 303a and 303b have direction of E-W, and Schoonover and Argillic faults are NNE-SSW. Looking north east.

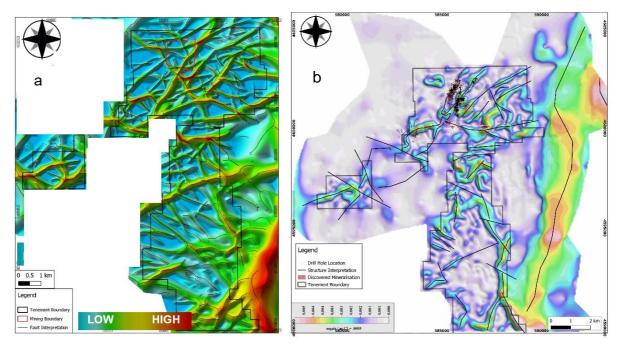


Figure 3: a) Total structure extracted using Fathom structure detection algorithm with wavelength of 50 metres; b) Traditional method of gravity data processing for structure detection (Residual Horizontal Gradient Gravity map).



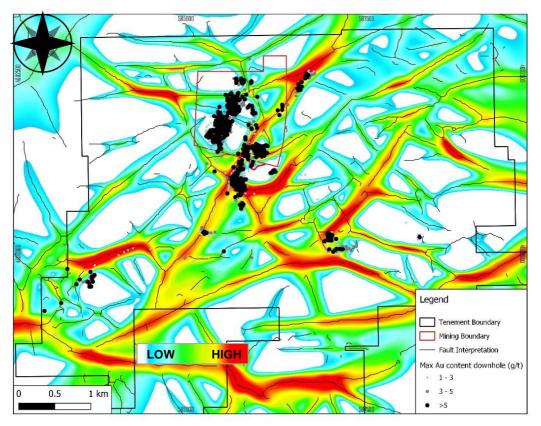


Figure 4: Total structure extracted using Fathom structure detection algorithm with wavelength of 50 metres with maximum gold content from historical drill hole. Close relationship between gold mineralisation and structures is affirmed, particularly for intersections between various sets of faults.

This announcement has been authorised for release by: Mingyan Wang, Managing Director

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About the Big Springs Gold Project

The Big Springs Gold Project is a Carlin-style gold deposit located 80 km north of Elko in northeast Nevada, USA. Big Springs produced 386,000 ounces of gold between 1987 and 1993, ceasing production due to low gold prices. It is located in proximity to multiple +10 Moz resource Carlinstyle gold projects within the region, including the producing Jerritt Canyon Gold Mine which is 20km south of Big Springs (see Figure 3). Big Springs has Measured, Indicated and Inferred Mineral Resources of 16 Mt at 2.0 g/t Au for 1.03 Moz (refer Table 1 and Anova ASX release dated 26 June 2014), over 50 km² of highly prospective ground. The high-grade portion of the Mineral Resources, reported at a cut-off grade of 2.5 g/t gold, contains 3.1 Mt at 4.2 g/t for 415 koz. Big Springs is fully permitted for Stage 1 mining operations.

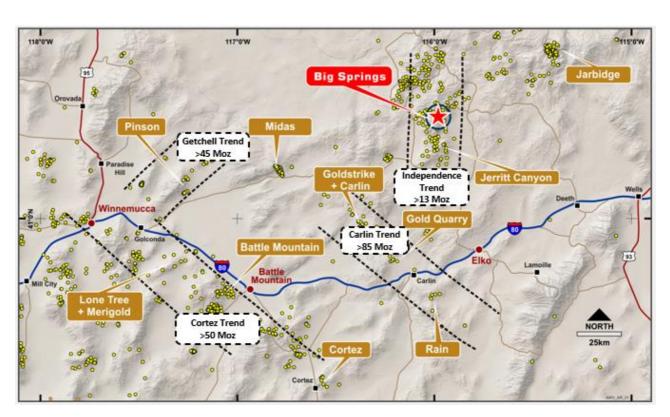


Figure 5: Location of Big Springs Project, Nevada USA

Table 1: Mineral Resources

		Measured			Indicated			Inferred			Combined	
Project	kT	Grade	Koz	kT	Grade	Koz	kT	Grade	Koz	kT	Grade	Koz
Big Springs (JORC 2012)												
North Sammy	346	7.0	77.9	615	3.1	62.2	498	2.8	44.1	1,458	3.9	184.1
North Sammy Contact				443	2.3	32.4	864	1.4	39.3	1,307	1.7	71.8
South Sammy	295	4.0	38.2	3,586	2.1	239.9	3,721	1.3	159	7,602	1.8	437.2
Beadles Creek				119	2.2	8.2	2,583	2.3	193.5	2,702	2.3	201.7
Mac Ridge							1,887	1.3	81.1	1,887	1.3	81.1
Dorsey Creek							278	1.4	12.9	278	1.4	12.9
Briens Fault							799	1.6	40.5	799	1.6	40.5
									•			
Big Springs Sub-Total	641	5.6	116.1	4,762	2.2	343.3	10,630	1.7	570.4	16,032	2.0	1,029.9

Note: Appropriate rounding applied

1. The information in this announcement that relates to the mineral resources for the Company's Big Springs Project was first reported by the Company in its resource announcement ("Resource Announcement") dated 26 June 2014. The Company confirms that it is not aware of any new information or data that materially affects the information included in the Resource Announcement, and in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the Resource Announcement continue to apply and have not materially changed.

Competent Person Statement

The information in this report that relates to geophysics data processing for the Big Springs Project is based on information provided by Dr. Amanda Buckingham, Principal Geophysicist – Fathom Geophysics and consultant to Anova. Dr. Amanda Buckingham is a member of the Australasian Institute of Mining and Metallurgy, and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr. Amanda Buckingham consents to the inclusion in this report of the matters based on her information in the form and context in which they appear.

The information in this report that relates to Exploration Result for the Big Springs Project is based on information compiled by Dr. Geoffrey Xue. Dr. Xue is a full time employee of Anova and a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr. Xue consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

The information in this report that relates to Mineral Resources for the Big Springs Project is based on information compiled by Mr Lauritz Barnes, Principal Consultant Geologist – Trepanier Pty Ltd. Mr Barnes is a shareholder of Anova. Mr Barnes is a member of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Barnes consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.



Appendix 1: JORC Code, 2012 Edition – Supporting tables.

The following section is provided to ensure compliance with the JORC (2012) requirements for the reporting of exploration results for the Big Springs gold deposit in Nevada.

Section 1: Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 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 (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.	 1,540 unique gravity stations were acquired, including 94 remote stations. Data were acquired on a 200 m staggered squire grid. Also, 500-1000 m spaced stations were gathered on surrounding public roads. Total number of readings is 1709; number of repeat readings:169; maximum repeat error: 0.049gmal; mean repeat error: 0.014mgal; RMS error: 0.022 mgal Gravity data were processed to complete Bouguer anomaly at first. LaCoste & Romberg (L&R) Model -G gravity meters, serial numbers G-018, G-392, G-406, G-603, G-735 and Scintrex CG-5 serial number 1210 were used on the survey. Terrain Corrections were calculated to a distance of 167 km for each station. Model -G gravity meters measure relative gravity changes with a resolution of 0.01 mGal. Scintrex CG-5 gravity meters measure relative gravity changes with a resolution of 0.001 mGal. The gravity survey is tied to the International Gravity Standardization Network of 1971 gravity base station in Elko (DOD#3899-2) and designated ELKO.
Drilling techniques	Drill type (eg core, reverse circulation, openhole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is oriented and if so, by what method, etc).	Not Applicable
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. 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.	Not Applicable
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral	Not Applicable



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Criteria	JORC Code explanation	Commentary
	Resource estimation, mining studies and	
	metallurgical studies.	
	Whether logging is qualitative or quantitative	
	in nature. Core (or costean, channel, etc)	
	photography.	
1	The total length and percentage of the	
1	relevant intersections logged.	
Sub-sampling	If core, whether cut or sawn and whether	 Not Applicable
techniques	quarter, half or all core taken.	
and sample	If non-core, whether riffled, tube sampled,	
preparation	rotary split, etc and whether sampled wet or	
	dry. For all sample types, the nature, quality	
	and appropriateness of the sample	
\	preparation technique.	
)	Quality control procedures adopted for all	 Not Applicable
	sub-sampling stages to maximise	
) [representivity of samples.	
Quality of	Measures taken to ensure that the sampling is	
assay data and	representative of the in situ material	
laboratory	collected, including for instance results for	
tests	field duplicate/second-half sampling.	
	Whether sample sizes are appropriate to the	
	grain size of the material being sampled.	
	The nature, quality and appropriateness of the	
)	assaying and laboratory procedures used and	
1	whether the technique is considered partial or	
	total.	
]	For geophysical tools, spectrometers,	The gravity data was processed to
\	handheld XRF instruments, etc, the	Complete Bounguer Gravity of density
)	parameters used in determining the analysis	2.5g/cc using standard procedures and
	including instrument make and model, reading	formulas. A single data point considered
)	times, calibrations factors applied and their	for removal but no compelling reason in
/	derivation, etc.	database. Both Minimum curvature and
1		krigging tralled. Minimum curvature
		selected.
		 Input grid retained buffer to optimise
/		Fourier filtering.
\		 The Bouguer anomaly grid was filtered to
)		generate a shallow and deeper residual
		using differential upward continuation.
		Horizontal gradient magnitude calculated
		using both residuals as input, Girds and
		Images provided.
)		 The Bouguer anomaly grid was used as
′		input to the Fathom structure detection
		routine. Three base wavelengths were
,		sued (50m, 100m, and 200m). Total
1		structures were extracted.
		 The first vertical derivative of the CBA
		was used as an input using wavelength of
		50 meters to maximise the detection of
		subtle high frequency edges.
		•
	Nature of quality control procedures adopted	Not Applicable
	(eg standards, blanks, duplicates, external	
<u> </u>	100 startaaras, startas, aupiteates, externar	



Criteria	JORC Code explanation	Commentary
	laboratory checks) and whether acceptable	
	levels of accuracy (ie lack of bias) and	
	precision have been established.	
Verification of	The verification of significant intersections by	Not Applicable
sampling and	either independent or alternative company	
assaying	personnel. The use of twinned holes.	
	Documentation of primary data, data entry	
	procedures, data verification, data storage	
	(physical and electronic) protocols.	
	Discuss any adjustment to assay data.	
Location of	Accuracy and quality of surveys used to locate	All data are conform to the NAD 83/UTM
data points	drill holes (collar and down-hole surveys),	11N metric coordinate system.
	trenches, mine workings and other locations	All gravity stations were surveyed using
	used in Mineral Resource estimation.	the Real Time Kinamatic (RTK) GPS
	Specification of the grid system used.	method, or where it was not possible to
	Quality and adequacy of topographic control.	receive GPS base information via radio
	Quanty and ducquacy of topograpine control.	modem. The Fast-Static or Post
		Processed Kinematic (PPK) method was
		used.
		Four GPS base stations designed BS1 to
		BS4 were used on the project. The
		coordinates and elevation of these base
		station locations were determined by
		making simultaneous GPS occupations in
		the Fast Static model with Continuously
		Operating Reference Stations.
		Topographic surveying was performed
		simultaneously with gravity data
		acquisition.
Data spacing	Data spacing for reporting of Exploration	For stations within the tenement
and	Results.	boundary, data were acquired on a 200
distribution		m staggered squire grid.
	Whether the data spacing and distribution is	 As for remote stations outside of the
	sufficient to establish the degree of geological	tenement boundary, space between
	and grade continuity appropriate for the	stations is 500-1000 m.
	Mineral Resource and Ore Reserve estimation	•
	procedure(s) and classifications applied.	-
	Whether sample compositing has been	
	applied.	
Orientation of	Whether the orientation of sampling achieves	Ground station data record. Station
data in relation to	unbiased sampling of possible structures and	space is 200 m square.
geological	the extent to which this is known, considering	
structure	the deposit type.	
· · -	If the relationship between the drilling	1
	orientation and the orientation of key	
	mineralised structures is considered to have	
	introduced a sampling bias, this should be	
	assessed and reported if material.	
Sample	The measures taken to ensure sample	All data are digitally stored by the
security	security.	Contractor and relayed to Anova.
Audits or	The results of any audits or reviews of	All data were initially processed and
reviews	sampling techniques and data.	
	samping techniques and data.	interpreted by a qualified person.



Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	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 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.	 The Big Springs project tenements, comprising a total of 710 unpatented Lode Mining Claims (14,149 acres or 5,726 ha) are all owned by Anova. Claims are subject to a Net Smelter Return ranging from zero 3% payable to various parties. There are no known adverse surface rights. There are no known impediments. All liabilities with respect to the decommissioning of the open pit mines are the responsibility of AngloGold Ashanti
Exploration done	Acknowledgment and appraisal of	N.A Inc. Not Applicable
Geology	exploration by other parties. Deposit type, geological setting and style of mineralisation.	The Project's disseminated, sediment-hosted gold deposits have been classified by several authors as typical Carlin-type deposits. The Big Springs deposits are hosted predominantly within the flaser bedded siltstone of the Overlap Assemblage, which is Mississippian to Permian in age (30Ma to 360Ma), with structure and host stratigraphy being the primary controls on gold mineralisation. Mineralisation at North Sammy is typically hosted within black, highly carbonaceous siltstone and calcareous sandy siltstone. These units are generally located between the Argillic thrust of the footwall and the Schoonover thrust in the hangingwall. Individual high-grade ore shoots at North Sammy generally plunge moderately to the NNW and are controlled by intersections of E-W-striking faults with the NE-SW-striking Argillic thrust. The South Sammy Creek deposit is more complex with a series of controlling structures, in particular the Briens fault along the western margin. On the eastern side of the Briens fault, the thick, tabular South Sammy ore deposit forms a largely continuous zone that is semi-concordant with the permeable and brittle host rocks of the Overlap Assemblage. The Mac Ridge East Prospect is believed to be located in the Hanson Creek formation — the main host to gold mineralization at Jerritt Canyon.
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill	Not Applicable



Criteria	JORC Code explanation	Commentary
	holes, including easting and northing of	·
	the drill hole collar, elevation or RL	
	(Reduced Level – elevation above sea level	
	in metres) of the drill hole collar, dip and	
	azimuth of the hole, down hole length and	
	interception depth plus hole length. If the	
	exclusion of this information is justified on	
	the basis that the information is not	
	Material and this exclusion does not	
	detract from the understanding of the	
	report, the Competent Person should	
	clearly explain why this is the case.	
Data aggregation	In reporting Exploration Results, weighting	 Not Applicable
methods	averaging techniques, maximum and/or	
	minimum grade truncations (eg cutting of	
	high grades) and cut-off grades are usually	
	Material and should be stated. 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.	
	The assumptions used for any reporting of	
	metal equivalent values should be clearly	
	stated.	
Relationship	These relationships are particularly	 Not Applicable
between	important in the reporting of Exploration	
mineralisation	Results. If the geometry of the	
widths and	mineralisation with respect to the drill hole	
intercept lengths	angle is known, its nature should be	
	reported. 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	
Di	known').	
Diagrams	Appropriate maps and sections (with	See figures and maps provided in the text
	scales) and tabulations of intercepts	of the announcement.
	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.	
Balanced	- ' ' '	• The CD believes this report to be
reporting	Where comprehensive reporting of all Exploration Results is not practicable,	The CP believes this report to be a halanced representation of exploration.
reporting	representative reporting of both low and	balanced representation of exploration undertaken.
	high grades and/or widths should be	unuertaken.
	practiced to avoid misleading reporting of	
	Exploration Results.	
Other substantive	Other exploration data, if meaningful and	All meaningful & material exploration data
exploration data	material, should be reported including (but	has been reported.
exploration data	not limited to): geological observations;	наз весттеропец.
	geophysical survey results; geochemical	
	survey results; bulk samples – size and	
	method of treatment; metallurgical test	
	meanod of treatment, inclandigical test	



Criteria	JORC Code explanation	Commentary
	results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.	
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Further work planned includes comprehensive data interpretation, field mapping, and exploration drilling.