

North American Precious Metals Weekly

Executive insights from the CEOs of AEM and WPM

Industry Overview

Executive insights calls with AEM and WPM

Over the past three weeks, we hosted Executive Insights calls with the CEOs of Agnico Eagle Mines (August 4th), and Wheaton Precious Metals (August 18th). They shared their views on the global gold sector, how to attract generalist investors to the precious metals sector, the outlook for gold and silver prices, and key differentiators of their respective companies. Key takeaways of each are set out below:

Sean Boyd, CEO & Vice-Chairman, Agnico Eagle Mines

Gold is trading near an all-time high, yet the economic environment is conducive to drive prices even higher. Mr. Boyd saw interest in the gold space three years ago in Europe and has seen this momentum continue. Prior to the pandemic, global economies were seeing rising debt levels and economic growth not improving fast enough, forcing interest rates low and supporting gold prices. Now, the unprecedented fiscal and monetary stimulus has super charged the move to gold. Plus, continued uncertainty and massive debt should create a positive environment for gold for the next few years. He sees investment demand is driving the price of gold.

Despite the rally, still missing the generalist investor interest (XAU below 2011 levels). He believes there's a tremendous opportunity as equity lags the price of gold. Why? Investors are wary of how the industry has managed rising gold prices historically (10 years ago, the industry didn't deliver on margin expansion when gold prices were rising). To get the generalist investor, companies need to focus on the business, harvest cash, display capital allocation and return cash to shareholders. The industry can have its best historical and relative return versus other industries (continued on page 2).

Randy Smallwood, President & CEO, Wheaton Precious

Future direction of gold and silver prices. Mr. Smallwood noted that we measure the value of precious metals in the US dollar which is providing a solid foundation for growth in precious metals pricing. The weakness in global currencies is helping, as governments try to stimulate economies. We still haven't seen the full effect of the pandemic and stimulus will be required to get us back to near normal. Solid asset classes will benefit. He is bullish on all three precious metals: gold, silver and palladium.

On Berkshire Hathaway purchasing Barrick shares and selling financials. Mr.

Buffet has a strong following so no doubt it will bring generalists. Yes, Barrick is best of class within the mining sector, but it's actually the streaming service business model (such as WPM) that is more ideal for the generalist investor from a risk/cost control perspective, while also delivering upside (continued on page 3).

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Refer to important disclosures on page 12 to 13.

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Equity
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Gold & Precious Metals

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Research Analysts Error!
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Table 1: Weekly Market Statistics

	Aug 21,	Aug 14,	
	2020	2020	%Chg
Gold Price (US\$/oz)	1,940	1,945	-0.2%
Silver Price (US\$/oz)	26.79	26.45	1.3%
Philadelphia XAU Index	147.51	145.96	1.1%
AMEX Gold Bugs Index	336.87	330.32	2.0%
S&P/TSX Global Gold Idx.	376.18	369.23	1.9%
Source: Bloomhera			

Table 2: Regional valuation comps

	2020 P/E	2020 P/CF	P/NAV
NA Senior Golds	29.0	11.7	1.60
NA Mid-Tier Golds	13.7	7.8	1.36
NA Intermediate/Jr Golds	18.7	7.8	1.16
NA Royalty/Streamers	56.4	32.7	2.72
South African Golds	11.8	8.4	0.99
International Golds	13.2	11.6	1.09

Source: Bloomberg, BofA Global Research

Table 3: Gold Indices and Closing Prices

Source: Bloomberg, BofA Global Research

21-Aug-2	20 Weekly	5	2 Week
d Indices Close	e % Change	High	Low
delphia Gold Index 147.51	1.1%	165.36	62.72
X Gold Bugs Index 336.87	2.0%	373.85	142.51
TSX Global Gold Index 376.18	1.9%	416.84	173.42
ustralasia Gold Index 15,261	-2.3%	17,020	8,172
frica Gold Index 3,876	0.3%	4,497	1,656
orth American Gold Index 2,076	5.6%	2,165	1,038
Il Gold Mines Index 2,793	3.6%	2,979	1,431
E/JSE Africa Gold Mining Index 5,586	-1.3%	6,761	2,042
cious Metal Prices			
Prices - US\$/oz 1,940.48	8 -0.2%	2,075.47	1,445.70
r Price - US\$/oz 26.79	1.3%	29.86	11.64
num Price - US\$/oz 922.31	-2.3%	1,041.71	564.00
dium Price - US\$/oz 2,182.73	3 2.9%	2,883.89	1,456.88
orth American Gold Index 2,076 Il Gold Mines Index 2,793 E/JSE Africa Gold Mining Index 5,586 cious Metal Prices Prices - US\$/oz 1,940.48 r Price - US\$/oz 26.79 num Price - US\$/oz 922.31	5.6% 3.6% -1.3% 8 -0.2% 1.3% -2.3%	2,165 2,979 6,761 2,075.4 29.86 1,041.7	1

Gold markets: Berkshire Hathaway buys GOLD

Last week, spot gold fell 0.2% or \$5 ending Friday at \$1,940.48/oz. Total holdings of global gold ETFs rose 0.3 million (mn) ozs from 108.29mn ozs on Aug. 14th to 108.59mn ozs as of August 21st. According to BofA Commodity Strategist Michael Widmer, gold continues to consolidate, with market participants concerned over the direction of real rates as the economy reflates. For now, the Fed remains pragmatic in keeping nominal rates low, outlining in the minutes that "With regard to the outlook for monetary policy beyond this meeting, a number of participants noted that providing greater clarity regarding the likely path of the target range for the federal funds rate would be appropriate at some point", whilst also suggesting that "A couple of participants remarked on the value of yield caps and targets as a means of reinforcing forward guidance on asset purchases, thereby providing insurance against adverse movements in market expectations regarding the path of monetary policy". BofA is forecasting for gold to average \$1885 and \$2159 in 2020 and 2021 respectively. The BofA commodities team is calling for gold to trade up to \$3,000 within 18 months, which we note this is not an average but a point of time target. The XAU Gold Index rose 1.1% to 147.51 points. The gold market was awestruck by the 13-F filing (on late Friday August 14th) indicating that Berkshire Hathaway had purchased nearly 21 million shares of Barrick Gold (GOLD) during Q2'20. This vote of confidence by this much revered investment firm could be the catalyst for further generalist buying in the gold sector.

Sean Boyd, Agnico Eagle (continued)

The gold mining industry can increase dividends. The gold industry is back to prepandemic production levels, but needs to be disciplined on how they use that capital. Will be a catalyst for higher share prices if companies step forward and show they are willing to significantly increase dividends and sustain those dividends when prices go down. We're seeing companies that eliminated dividends in 2013 now talking about reinstating = positive sign.

No signs of cost inflation as gold prices rise. He highlighted that the gold industry is not seeing pricing pressure and the use of high reserve assumptions that caused costs to increase/margins to come in, 12 years ago. Any increases in employee salaries can be offset with productivity improvements. The industry is much better positioned to take advantage of rising gold prices

Political and jurisdiction risk as gold prices increase... as prices rise, gold miners could become a target for some governments and companies need to consider the risk/reward profile of the jurisdictions. AEM's production is predominantly in Canada (70%), Finland, and Mexico. Based on the favorable mining laws amongst other factors, he is very comfortable where their assets are located.



Priorities for increased free cash flow at AEM. Growing free cash flow is to be deployed into the business and invested into the project pipeline, some harvested to increase financial flexibility, and some deployed via dividends.

Agnico's advantage. AEM has had a focused strategy and never has gotten caught up in the themes that were prevalent in the last 30 years (empire building, bad M&A, financing engineering). AEM has kept things simple and invested in a measured way.

Randy Smallwood, Wheaton Precious Metals (continued)

On attributes that differentiate WPM from producing companies and other streaming and royalty companies. Streaming companies get metals delivered to it at a fixed cost = no cost surprise to the investor. The biggest risk is when investing in a mine is that it isn't as profitable as expected, and their model takes this out of the equation. WPM's asset base is 100% streaming (stronger than royalties) and focused on asset quality. WPM has first and second quartile assets only, which means they will still operate if prices fall (whereas fourth quartile mines will get shut down) and it's the first place where their partners put more investment dollars.

WPM's optimal ratio of revenue generation by metal. The first criteria is the quality of the asset and that their partners are healthy and profitable. Gold is by far the most stable, while silver has more beta. There is appeal to silver in a bull market, but silver will underperform on the way down. WPM is also comfortable with palladium, but it's more susceptible to industrial activity then the rest. It comes down to being diversified. WPM remains gold focused but the current revenue split of around 53% gold, 42% silver, 5% palladium (with cobalt coming on) is very agreeable longer term.

On taking more time to complete the \$0.5-\$1 billion streaming deals... it's going to take longer than highlighted on Q4 and Q1 calls as higher gold prices have increased expectations. When prices are low, it's the best time to invest; countered with when prices are high (although not there yet) it's time to harvest. They won't be chasing a frothy market, making it challenging to complete some deals. If deals aren't closed, the cash flow will go to the dividend and paying down the revolver.

The value of the streamers... streamers always makes a 'good' mine a 'great mine' and improve the internal rate of return for the operator's shareholders. Streaming will always be an attractive source of capital, but has to be priced appropriately.

On capital allocation... reiterated focus on returning capital to shareholders, would build up the payout ratio from the current "basement" level of 30% of the prior four quarters cash flow to 40% to 50% over time. WPM has always used debt to effectively limit the dilution of their shareholders. His first preference for capital allocation is in the group (for acquisitions), second is funding the dividends.

On geopolitical risk... very important as a number of governments and jurisdictions may have to increase tax revenue. They are sensitive to policy risk, as a streamer doesn't control the relationship with the government and local authorities, important to measure the risk and make a decision on it. They will not take risks they have no control over. They are happy to step in to a risky jurisdiction but need a parent guarantee.

WPM's advantage. WPM has a high quality asset base populated by first and second quartile assets (will still operate if prices fall versus fourth quartile mines shutting down) and it's the first place where partners put investment dollars. Mr. Smallwood reiterated focus on returning capital to shareholders marked by a longer term plan to build out the payout ratio from 30% to 40-50% of operating cash flow over time.



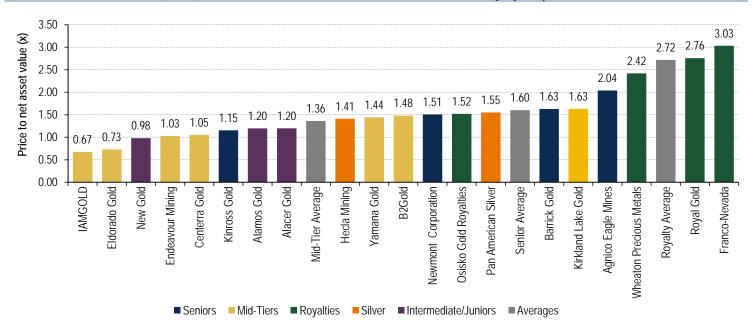
Valuation Overview

Table 4: Valuation Comparables for North American Gold and Precious Metals Producers and Royalty Companies																	
Priced as of August 21, 2020				Market Cap)	Е	PS	P/E	(x)	CF	PS	P/CF	PS (x)				
	BofA	Share	Shares												Net		
	Sym	Price	O/S	(USDmn)	Rating	2020E	2021E	2020E	2021E	2020E	2021E	2020E	2021E	DCF	Cash	NAV	P/NAV
Senior Gold Producers																	
Agnico Eagle Mines	AEM	79.50	241	19,160	BUY	1.97	4.41	40.4	18.0	4.90	7.90	16.2	10.1	44.80	(5.80)	39.00	2.04
Barrick Gold	GOLD	29.31	1,778	52,113	BUY	0.95	1.53	30.9	19.2	2.72	3.49	10.8	8.4	18.86	(0.85)	18.01	1.63
Kinross Gold	KGC	8.65	1,258	10,882	BUY	0.76	0.95	11.4	9.1	1.48	1.73	5.8	5.0	8.50	(1.00)	7.50	1.15
Newmont Corporation	NEM	65.57	800	52,456	BUY	2.45	4.97	26.8	13.2	5.41	7.92	12.1	8.3	46.55	(3.05)	43.50	1.51
Market Cap Weighted Average								29.0	15.9			11.7	8.3				1.60
Mid-Tier Gold Producers																	
B2Gold	BTG	6.28	1,026	6,444	BUY	0.62	0.67	10.1	9.4	0.90	0.90	7.0	7.0	4.25	0.00	4.25	1.48
Centerra Gold(1)	YCG	16.60	292	3,679	BUY	1.41	2.30	8.9	5.5	2.48	3.58	5.1	3.5	12.10	(0.10)	12.00	1.05
Eldorado Gold	EGO	10.92	174	1,901	BUY	1.22	1.20	9.0	9.1	2.69	2.50	4.1	4.4	14.77	0.23	15.00	0.73
Endeavour Mining ⁽¹⁾	YEDV	35.82	163	4,433	BUY	3.80	4.31	7.2	6.3	5.79	7.21	4.7	3.8	29.15	(2.65)	26.50	1.03
IAMGOLD	IAG	4.19	471	1,973	UNDE	0.28	0.75	15.0	5.6	0.93	1.39	4.5	3.0	5.22	0.68	5.90	0.67
Kirkland Lake Gold	KL	53.16	277	14,741	BUY	3.48	4.73	15.3	11.2	5.02	6.80	10.6	7.8	31.30	2.15	33.45	1.63
Yamana Gold	AUY	5.98	953	5,697	NEUT	0.26	0.58	23.0	10.3	0.72	1.08	8.3	5.5	4.85	(0.70)	4.15	1.44
Market Cap Weighted Average								13.7	9.3			7.8	6.1				1.36
Intermediate/Junior Gold Producers																	
Alacer Gold (2)	YASR	8.20	295	1,834	NO R	0.63	0.87	9.9	7.2	1.06	1.22	5.9	5.1	5.42	(0.22)	5.20	1.20
Alamos Gold	AGI	10.05	391	3,933	UNDE	0.44	0.74	22.8	13.6	1.05	1.58	9.6	6.4	7.85	0.55	8.40	1.20
New Gold	NGD	1.52	673	1,023	UNDE	0.00	0.27	NA	5.6	0.34	0.65	4.4	2.3	1.84	(0.29)	1.55	0.98
Market Cap Weighted Average								18.7	10.6			7.8	5.4				1.16
Royalty Companies																	
Franco-Nevada	FNV	148.53	190	28,221	BUY	2.32	3.50	64.0	42.4	3.82	5.12	38.9	29.0	47.70	1.30	49.00	3.03
Osisko Gold Royalties(1)	YOR	15.20	165	1,900	BUY	0.28	0.80	54.3	19.0	0.61	1.12	24.9	13.6	9.33	0.67	10.00	1.52
Royal Gold	RGLD	137.81	66	9,040	UNDE	2.47	3.84	55.8	35.9	5.32	6.81	25.9	20.2	49.13	0.87	50.00	2.76
Wheaton Precious Metals	WPM	51.86	448	23,223	BUY	1.09	1.88	47.6	27.6	1.83	2.75	28.4	18.9	22.18	(0.73)	21.45	2.42
Market Cap Weighted Average								56.4	35.2			32.7	23.5				2.72
Primary Silver Producers																	
Hecla Mining	HL	5.81	528	3,067	NEUT	0.05	0.49	NA	11.9	0.36	0.77	16.3	7.5	5.04	(0.92)	4.12	1.41
Pan American Silver	PAAS	33.22	210	6,976	BUY	1.10	2.88	30.2	11.5	2.29	4.61	14.5	7.2	20.80	1.00	21.80	1.55
Market Cap Weighted Average								30.2	11.6			15.0	7.3				1.51

Source: Bloomberg, Company reports, BofA Global Research estimates (1) stock price in CAD; EPS, CFPS, NAV in USD (2) CAD

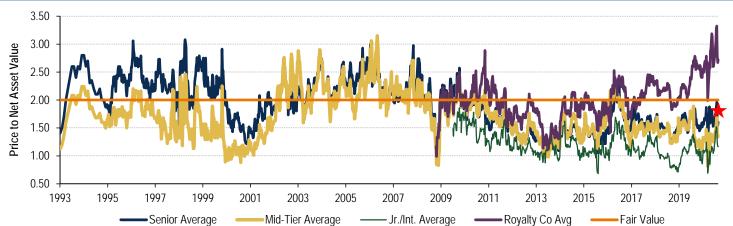


Chart 1: Price to Net Asset Value (P/NAV) for North American Gold and Precious Metals Producers and Royalty Companies



Source: BofA Global Research estimates

Chart 2: North American gold producer and royalty & streamer P/NAV history



Source: BofA Global Research estimates



Table 5: Net asset value, reserves and resources

Priced as of August 21, 2020	BofA Sym	Share Price	Shares O/S	Market Cap	Gold Only Enterprise Value	Rating	DCF	Net Cash	NAV	P/NAV	P&P Primary Metal Reserves	Total Primary Metal Resources incd'g P&P (mln
Senior Gold Producers											(million oz)	oz)
Agnico Eagle Mines	AEM	79.50	241	19,160	20,640	B-1-7	44.80	(5.80)	39.00	2.04	21.6	61.1
Barrick Gold	GOLD	29.31	1,778	52,113	62,633	B-1-7	18.86	(0.85)	18.01	1.63	68.8	206.0
Kinross Gold	KGC	8.65	1,258	10,882	12,281	C-1-9	8.50	(1.00)	7.50	1.15	24.3	65.7
Newmont Corporation Market Cap Weighted Average	NEM	65.57	800	52,456	56,619	B-1-7	46.55	(3.05)	43.50	1.51 1.60	95.7	199.3
Mid-Tier Gold Producers												
B2Gold	BTG	6.28	1,026	6,444	6,662	C-1-7	4.25	0.00	4.25	1.48	7.4	18.8
Centerra Gold(1)	YCG	16.60	292	3,679	3,640	B-1-7	12.10	(0.10)	12.00	1.05	11.1	26.9
Eldorado Gold	EGO	10.92	174	1,901	2,251	C-1-9	14.77	0.23	15.00	0.73	16.4	32.2
Endeavour Mining	YEDV	35.82	163	5,841	5,017	C-1-9	29.15	(2.65)	26.50	1.35	9.2	23.7
IAMGOLD	IAG	4.19	471	1,973	1,740	C-3-9	5.22	0.68	5.90	0.67	16.7	38.9
Kirkland Lake Gold	KL	53.16	277	14,741	14,234	C-1-7	31.30	2.15	33.45	1.63	20.5	38.3
Yamana Gold	AUY	5.98	953	5,697	6,401	C-2-7	4.85	(0.70)	4.15	1.44	7.9	46.1
Market Cap Weighted Average										1.36		
Intermediate/Junior Gold Producers												
Alacer Gold (3)	YASR	8.20	295	1,834	2,219	-6-	5.42	(0.22)	5.20	1.20	3.3	8.0
Alamos Gold ⁽⁶⁾	AGI	10.05	391	3,933	3,804	C-3-7	7.85	0.55	8.40	1.20	9.7	22.7
New Gold	NGD	1.52	673	1,023	1,374	C-3-9	1.84	(0.29)	1.55	0.98	11.8	17.0
Market Cap Weighted Average										1.16		
Royalty Companies												
Franco-Nevada	FNV	148.53	190	28,221	28,011	B-1-7	47.70	1.30	49.00	3.03	NA	NA
Osisko Gold Royalties (2)	YOR	15.20	165	1,900	2,072	B-1-7	9.33	0.67	10.00	1.56	NA	NA
Royal Gold	RGLD	137.81	66	9,040	9,084	C-3-7	49.13	0.87	50.00	2.76	NA	NA
Wheaton Precious Metals	WPM	51.86	448	23,223	23,875	B-1-7	22.18	(0.73)	21.45	2.42	NA	NA
Market Cap Weighted Average										2.72		
Primary Silver Producers												
Fresnillo ⁽⁵⁾	FNLPF	1234.00	737	11,903	12,514	B-1-8	804.85	0.00	804.85	1.53	397.8	1,265.5
Hecla Mining	HL	5.81	528	3,067	3,570	C-2-8	5.04	(0.92)	4.12	1.41	212.2	886.4
Hochschild Mining (5)	HCHDF	236.20	514	1,589	1,699	C-1-7	221.84	0.00	222	1.06	41.2	288.8
Pan American Silver Market Cap Weighted Average	PAAS	33.22	210	6,960	7,041	C-1-7	20.80	1.00	21.80	1.55 1.49	557.2	1,656.7
, , ,	S. I. I.B.									1.49		

Source: Bloomberg, Company reports, BofA Global Research estimates

Note: All tickers represent BofA Global Research covered companies

(1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4) ZAR (5) stock price in pence; NAV in USD, (6) stock price and NAV in CAD; (7) silver reserves, silver reserves, and silver mined in model (8) palladium reserves, palladium resources and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp. Gold price assumptions: 2020: \$1,695/oz, 2021: \$2,012/oz, long-term \$1,600/oz. Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate.



Table 6: Valuation Comparables for Global Gold and Precious Metal Producers and Royalty Companies Cont'd

Priced as of August 21, 2020	BofA	Share	Shares Shares	Market Cap		EPS		P/E (x)		CFPS		P/CFPS (x)			Net		
	Sym	Price	O/S	(USDmn)	Rating	2020E	2021E	2020E	2021E	2020E	2021E	2020E	2021E	DCF	Cash	NAV	P/NAV
Australian Gold Producers(9)	- 7			,	3												
Evolution Mining	CAHPF	5.83	1,704	7,116	BUY	0.24	0.31	24.5	19.0	0.59	0.56	9.9	10.4	n/a	n/a	n/a	n/a
Newcrest Mining	NCMGF	33.02	765	18,100	BUY	0.90	1.17	26.4	20.2	1.91	2.73	12.4	8.7	n/a	n/a	n/a	n/a
Northern Star Resources	NESRF	14.03	741	7,442	BUY	0.35	1.06	40.2	13.2	0.96	1.58	14.6	8.9	n/a	n/a	n/a	n/a
OceanaGold	OGDCF	3.60	622	1,604	C-1-9	0.00	0.30	NA	8.5	0.49	0.62	5.3	4.2	n/a	n/a	n/a	n/a
Market Cap Weighted Average								29.1	17.9			12.0	8.9				
South African Gold Producers (19)																	
AngloGold Ashanti (13)	AULGF	485.09	418	11,829	NEUT	2.37	4.52	11.9	6.3	3.12	4.92	9.1	5.7	525.06	0.00	525.06	0.92
Gold Fields ⁽¹³⁾	GFIOF	213.37	883	10,986	BUY	0.77	1.44	16.2	8.6	1.37	2.28	9.0	5.4	214.51	0.00	214.51	0.99
Harmony Gold (14,18)	HGMCF	101.05	603	3,553	UNDE	(0.37)	22.98	NA	4.4	7.50		13.5	NA	67.12	0.00	67.12	1.51
Sibanye (5)	XSIWF	49.95	2,675	7,788	BUY	9.42	15.94	5.3	3.1	11.52	19.53	4.3	2.6	58.20	0.00	58.20	0.86
Market Cap Weighted Average								11.8	6.1			8.4	4.8				0.99
International Gold Producers																	
Centamin Egypt ^(5,18)	CELTF	203.50	1,153	3,071	BUY	0.14	0.22	18.4	11.9	0.22	0.29	12.2	9.2	175.18	0.00	175.18	1.16
Petropavlovsk ⁽⁵⁾	PPLKF	31.10	3,310	1,348	NEUT	0.05	0.09	8.7	4.7	0.01	0.10	33.4	4.2	35.35	0.00	35.35	0.88
Polymetal (5)	XPMYF	1960.50	469	12,045	BUY	2.08	3.09	12.4	8.3	2.52	3.50	10.2	7.3	1,855.00	0.00	1,855.00	1.06
Polyus ⁽²¹⁾	XPLZF	17686.00	133	31,453	BUY	17.85	25.05	13.2	9.4	21.24	29.12	11.1	8.1	215.20	0.00	215.20	1.10
Market Cap Weighted Average								13.2	9.2			11.6	7.9				1.09
PGM Producers ⁽⁵⁾																	
Anglo American Platinum	AGPPF	1263.87	270	19,867	NEUT	90.45	169.61	14.0	7.5	135.20	174.67	9.3	7.2	1,223.38	0.00	1,223.38	1.03
Impala Platinum	IMPUF	160.46	799	7,473	BUY	14.43	42.19	11.1	3.8	20.61	40.44	7.8	4.0	157.40	0.00	157.40	1.02
Northam Platinum	NMPNF	151.80	510	4,511	BUY	3.86	14.72	39.4	10.3	5.87	25.33	25.9	6.0	123.84	0.00	123.84	1.23
Royal Bafokeng	XRVBF	64.82	259	978	BUY	7.14	16.27	9.1	4.0	8.76	19.71	7.4	3.3	75.71	0.00	75.71	0.86
Market Cap Weighted Average								16.7	6.9			11.2	6.2				1.05
Carres Diagraphers DefA Clabel Describe																	

Source: Bloomberg, BofA Global Research estimates

Note: Note: All tickers represent BofA Global Research covered companies

(1)stock price and market cap in CAD\$, EP\$, CFP\$, NAV in USD\$; (2) CAD\$ (3) AUD\$ (4) ZAR (5) stock price, NAV in pence; market cap in GBP, EP\$, CFP\$ in USD; (6) stock price, market cap and NAV in CAD\$; EP\$ and CFP\$ in USD\$; (7) share price and NAV in HKD; EP\$ and CFP\$ in USD; (10) stock price and market cap in USD EP\$, CFP\$ in GBP; (9) stock price, market cap, NAV in AUD, EP\$, and CFP\$ in USD; (10) stock price and market cap in CAD; NAV in GBP, EP\$ and CFP\$ in USD; (11) stock price, market cap, EP\$, CFP\$ and NAV in TRY; (12) Estimates are based on Bloomberg consensus; (13) stock price, market cap and NAV in ZAR; EP\$ and CFP\$ in USD, (14) stock price, market cap in ZAR; NAV, EP\$ and CFP\$ in USD, NAV in GBP (16) stock price and market cap in ZAR; EP\$, CFP\$ and NAV in CAD; (17) June 30th year end; (18) Real gold price deck (US\$/oz): 2020; \$1,695; 2021=\$2,012; 2022=\$1,808; 2023=\$1,739; 2024=\$1,669; 2025(LT) = 1,600 (19) Nominal LT gold price (US\$/oz)=\$1,810; (20) Nominal gold price deck (US\$/oz); Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate, (21) share price in RUB.



Table 7: EV/EBIT and EV/EBITDA ratios for Global Gold and Precious Metal Producers and Royalty Companies

										BIT				TDA		
Drigod as of August 21, 2020				Market	Dobt	Cook	Enterprise		(US			OIT (v)		\$mn	EV/EE	
Priced as of August 21, 2020	BofA	Shara	Shares	Cap	Debt	Cash	Enterprise		ехсрі	YOR)	EV/E	SIT (x)	excpt	YUR)	()	()
	Sym	Price	0/\$		(USDmn)	(USDmn)	Value (EV)	Rating	2020F	2021F	2020F	2021F	2020F	2021F	2020F	2021F
Senior Gold Producers	٠,		0.0	(002)	(002)	(002)	(USDmn)	9								
Agnico Eagle Mines	AEM	79.50	241	19,160	2,821	1,340	20,640	BUY	1,007	2,019	20.5	10.2	1,674	2,816	12.3	7.3
Barrick Gold	GOLD	29.31	1,778	52,113	5,179	3,327	62,633	BUY	4,954	7,365	12.6	8.5	7,003	9,330	8.9	6.7
Kinross Gold	KGC	8.65	1,258	10,882	2,538	1,152	12,281	BUY	1,460	2,253	8.4	5.5	2,290	3,139	5.4	3.9
Newmont Corporation	NEM	65.57	800	52,456	6,872	3,884	56,619	BUY	3,440	6,938	16.5	8.2	5,777	9,168	9.8	6.2
Market Cap Weighted Average											14.8	8.4			9.4	6.4
Mid-Tier Gold Producers																
B2Gold	BTG	6.28	1,026	6,444	234	208	6,662	BUY	997	1,046	6.7	6.4	1,296	1,303	5.1	5.1
Centerra Gold(1)	YCG	16.60	292	3,679	155	194	3,640	BUY	561	894	6.5	4.1	871	1,262	4.2	2.9
Eldorado Gold	EG0	10.92	174	1,901	658	366	2,251	BUY	336	369	6.7	6.1	567	583	4.0	3.9
Endeavour Mining ⁽¹⁾	YEDV	35.82	163	5,841	834	357	5,017	BUY	809	1,101	6.2	4.6	1,089	1,442	4.6	3.5
IAMGOLD	IAG	4.19	471	1,973	483	802	1,740	UNDE	278	630	6.3	2.8	525	899	3.3	1.9
Kirkland Lake Gold	KL	53.16	277	14,741	26	531	6,401	BUY	1,419	1,988	4.5	3.2	1,757	2,426	3.6	2.6
Yamana Gold	AUY	5.98	953	5,697	992	323	6,401	NEUT	422	878	15.2	7.3	857	1,338	7.5	4.8
Market Cap Weighted Average											7.8	5.2			4.9	3.8
Intermediate/Junior Gold Producers																
Alacer Gold (4)	YASR	8.20	295	1,834	360	199	2,219	NO R	280	367	7.9	6.1	388	448	5.7	5.0
Alamos Gold	AGI	10.05	391	3,933	101	230	3,804	UNDE	267	470	14.3	8.1	423	658	9.0	5.8
New Gold	NGD	1.52	673	1,023	752	400	1,374	UNDE	37	305	37.1	4.5	266	580	5.2	2.4
Market Cap Weighted Average											16.6	6.8			7.3	4.9
Royalty Companies																
Franco-Nevada	FNV	148.53	190	28,221	0	210	28,011	BUY	543	850	51.5	33.0	793	1,130	35.3	24.8
Osisko Gold Royalties (4)	YOR	15.20	166	1,911	299	127	2,072	BUY	71	181	38.2	15.1	121	233	22.6	11.7
Royal Gold	RGLD	137.81	66	9,040	107	94	9,084	UNDE	201	314	45.1	28.9	377	509	24.1	17.9
Wheaton Precious Metals	WPM	51.86	448	23,223	719	127	23,875	BUY	569	967	41.9	24.7	844	1,250	28.3	19.1
Market Cap Weighted Average											46.5	28.7			30.6	21.2
Primary Silver Producers																
Fresnillo		1234.00		11,903	814	337	12,514	BUY	754	1,637	16.6	7.6	1,155	2,112	10.8	5.9
Hecla Mining	HL	5.81	528	3,067	705	216	3,570	NEUT	78	322	45.8	11.1	243	475	14.7	7.5
Hochschild Mining	HCHDF	236.20	514	1,589	202	166	1,699	BUY	166	544	10.3	3.1	290	710	5.9	2.4
Pan American Silver	PAAS	33.22	210	6,960	202	239	7,041	BUY	320	909	22.0	7.7	593	1,223	11.9	5.8
Market Cap Weighted Average											21.9	7.9			11.3	5.9
Carres Diagram DafA Clabal Daggards anti-	t C															

 $Source: Bloomberg, BofA\ Global\ Research\ estimates, Company\ reports$

Note: All tickers represent BofA Global Research covered companies

⁽¹⁾ stock price in CAD; EBIT, EBITDA in USD (2) CAD (3) Stock price in pence, all other data in US\$ (4) stock price, EBITDA, and EBIT in CAD, market cap in USD. Gold price assumptions: 2020: \$1,886/oz, 2021: \$2,129 /oz. Ten year average gold price assumption: \$1,816/oz.

Table 8: EV/EBIT and EV/EBITDA ratios for Global Gold and Precious Metal Producers and Royalty Companies

Priced as of August 21, 2020	BofA	Share	Shares	Market Cap	Debt	Cash	Enterprise		EB (US\$/C\$/ZA		EV/E	BIT (x)	EBIT (US\$/C\$/ZA		EV/EE	
	Sym	Price	0/S		(USDmn)	(USDmn)	Value (EV)	Rating	2020E	2021E	2020E	2021E	2020E	2021E	2020E	2021E
Australian Gold Producers (4,12,18)	-						(USDmn)	_								
Evolution Mining	CAHPF	5.83	1,704	7,116	9	30	7,095	BUY	594	763	16.7	13.0	1,027	1,193	9.7	8.3
Newcrest Mining	NCMGF	33.02	765	18,100	1,995	1,600	18,559	BUY	1,176	1,477	15.8	12.6	1,798	2,102	10.3	8.8
Northern Star Resources	NESRF	14.03	741	7,442	34	187	7,290	BUY	362	1,148	28.1	8.9	710	1,499	14.3	6.8
OceanaGold	OGDCF	3.60	622	1,604	299	177	1,725	C-1-9	39	284	44.3	6.1	233	479	7.4	3.6
Market Cap Weighted Average											19.8	11.5			10.9	8.0
South African Gold Producers (16)																
AngloGold Ashanti	AULGF	485.09	418	11,829	2,204	499	13,570	NEUT	1,700	2,985	8.0	4.5	2,385	3,663	5.7	3.7
Gold Fields (4)	GFIOF	213.37	883	10,986	2,179	515	12,782	BUY	1,377	2,237	9.3	5.7	2,104	2,988	6.1	4.3
Harmony Gold	HGMCF	101.05	603	3,553	419	70	3,901	UNDE	333	14,260	NA	4.7	4,013	18,999	16.7	3.5
Sibanye (4)	XSIWF	49.95	2,675	7,788	1,726	406	9,213	BUY	44,255	69,387	3.6	2.3	53,000	79,345	3.0	2.0
Market Cap Weighted Average											7.3	4.4			6.3	3.5
International Gold Producers																
Centamin Egypt	CELTF	203.50	1,153	3,071	0	278	2,793	BUY	434	637	6.4	4.4	553	761	5.0	3.7
Petropavlovsk	PPLKF	31.10	3,310	1,348	603	39	1,922	NEUT	282	498	6.8	3.9	397	627	4.8	3.1
Polymetal	XPMYF	1960.50	469	12,045	1,764	253	10,736	BUY	1,290	1,879	8.3	5.7	1,503	2,080	7.1	5.2
Polyus	XPLZF	17686.00	133	31,453	5,075	1,797	34,834	BUY	2,913	4,209	12.0	8.3	3,228	4,571	10.8	7.6
Market Cap Weighted Average											10.7	7.3			9.5	6.7
PGM Producers																
	A C D D E	12/2 07	270	10.07	4.4	1 227	10 / 10	NEUT	25 474	// 151	0.0	EΛ	20.002	40.047	0.0	4.7
Anglo American Platinum	AGPPF	1263.87	270	19,867	64	1,327	18,618	NEUT	35,474	64,151	9.0	5.0	39,803	69,947	8.0	4.6
Impala Platinum (4)	IMPUF	160.46	799 510	7,473	607	601	7,617	BUY	16,772	46,899	7.8	2.8	21,184	51,924	6.2	2.5
Northam Platinum (4)	NMPNF	151.80	510	4,511	141	60	4,591	BUY	3,364	11,287	23.4	7.0	3,918	12,087	20.1	6.5
Royal Bafokeng (4)	XRVBF	64.82	259	978	225	58	1,145	BUY	3,111	6,457	6.3	3.0	4,203	7,694	4.7	2.6
Market Cap Weighted Average											10.7	4.7			9.2	4.3
Carrage Diagonale and DafA Clahal Dag		C-														

 $Source: Bloomberg, BofA\ Global\ Research\ estimates,\ Company\ reports$

Note: All tickers represent BofA Global Research covered companies

(1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium resources and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on an SEO basis (15) Reserves and resources on a Platinum Equivalent (4E->Paltainum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBp; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBp. Real gold price assumptions: 2013: \$1,419/oz, long-term \$1,400/oz. Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB



Operating Comparables

Table 9: Operating Forecasts for Global Gold and Precious Metal Producers

Priced as of August 21, 2020	BofA			Enterprise				Production		prise lue Oz of	Value Per Oz of	Enterprise Value Per Oz of
	Sym	Price	O/S	Value	Reserves	Resources including	2020E	2021E	Prod.	(USD)	Reserves	Resources
Senior Gold Producers					(million oz)	P&P (mn oz)	('000 oz)	('000 oz)	2020E	2021E	YE 2019	YE 2019
Agnico-Eagle Mines	AEM	79.50	241	20,640	21.6	61.1	1,706	2,015	12,100	10,242	956	338
Barrick Gold	GOLD	29.31	1,778	62,633	68.8	206.0	4,834	4,868	12,957	12,866	910	304
Kinross Gold	KGC	8.65	1,258	12,281	24.3	65.7	2,401	2,462	5,115	4,989	505	187
Newmont Corporation	NEM	65.57	800	56,619	95.7	199.3	5,960	6,349	9,501	8,917	591	284
Market Cap Weighted Average									10,922	10,405	765	292
Mid-Tier Gold Producers												
B2Gold	BTG	6.28	1,026	6,662	7.4	18.8	1,048	938	6,358	7,104	898	354
Centerra Gold ⁽¹⁾	YCG	16.60	292	3,640	11.1	26.9	833	916	4,372		328	136
Eldorado Gold	EGO	10.92	174	2,251	16.4	32.2	544	442	4,136	5,094	138	70
Endeavour Mining ⁽¹⁾	YEDV	35.82	163	5,017	9.2	23.7	876	1,097	5,727	4,572	547	211
IAMGOLD	IAG	4.19	471	1,740	16.7	38.9	673	752	2,586	2,315	104	45
Kirkland Lake Gold	KL	53.16	277	14,234	20.5	38.3	1,378	1,590	10,333		695	371
Yamana Gold ⁽⁶⁾	AUY	5.98	953	6,401	7.9	46.1	804	884	7,958	7,241	814	139
Market Cap Weighted Average									7,481	6,859	639	259
Intermediate/Junior Gold Producers												
Alacer Gold (3)	YASR	8.45	295	2,219	3.3	8.0	278	246	7,981	9,036	676	279
Alamos Gold	AGI	10.05	391	3,804	9.7	22.7	427	475	8,898	8,014	391	167
New Gold	NGD	1.52	673	1,374	11.8	17.0	296	362	4,649	3,794	116	81
Market Cap Weighted Average									7,833	1,531	425	185
Royalty Companies							Attributable					
Franco-Nevada	FNV	148.53	190	28,011	NA	NA	499	567	56,166		NA	NA
Osisko Gold Royalties (2)	YOR	15.20	165	2,072	NA	NA	65	87	31,951		NA	NA
Royal Gold	RGLD	137.81	66	9,084	NA	NA	320	325	28,407		NA	NA
Wheaton Precious Metals	WPM	51.86	448	23,875	NA	NA	645	738		32,338	NA	NA
									44,108	39,005		
Primary Silver Producers												
Fresnillo(5,7)		1234.00	737	12,514	397.8	1,265.5	50,013	58,903	250	212	31.46	9.89
Hecla Mining	HL	5.81	528	3,570	212.2	886.4	11,739	12,137	304	294	16.83	4.03
Hochschild Mining (5,7)	HCHDF		514	1,699	41.2	288.8	26,114	35,383	65	48	41.24	5.88
Pan American Silver	PAAS	33.22	210	7,041	557.2	1,656.7	20,869	27,837	337	253	12.64	4.25
Market Cap Weighted Average									270	224	24.69	7.17
Common De CA Clabel December at the control of the Common												

 ${\it Source: Bof A Global \ Research \ estimates, Company \ reports}$

Note: All tickers represent BofA Global Research covered companies $\label{eq:BofA}$



⁽¹⁾ stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium reserves, palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on an SEO basis (15) Reserves and resources on a Platinum Equivalent (4E->Paltainum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBp; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBp. Real gold price assumptions: 2013: \$1,419/oz, long-term \$1,400/oz. Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB

Table 10: Operating Forecasts for Global Gold and Precious Metal Producers (Cont'd)

Priced as of August 21, 2020							Produ	uction	Enterprise Value		Enterprise Value	Enterprise Value
	BofA	Share	Shares	Enterprise	P&P Gold	Total Gold				Oz of	Per Oz of	Per Oz of
	Sym	Price	0/S	Value	Reserves	Resources	2020E	2021E		(USD)	Reserves	Resources
	- 7					including P&F				(,		
Australian Gold Producers(3)					(million oz)	(mn oz)	('000 oz)	('000 oz)	2020E	2021E	YE 2019	YE 2019
Evolution Mining	CAHPF	5.83	1,704	7,095	9.5	27.8	746	708	9,505	10,020	746	255
Newcrest Mining	NCMGF	33.02	765	18,559	52.0	110.0	2,171	2,006	8,548	9,251	357	169
Northern Star	NESRF	14.03	741	7,290	5.4	15.9	905	1,006	8,053	7,243	NA	459
OceanaGold	OGDCF	3.60	622	1,725	5.5	15.3	341	461	5,065	3,745	316	113
Market Cap Weighted Average									8,467	8,712	360	245
South African Gold Producers(4)												
AngloGold Ashanti	AULGF	485.09	418	13,570	43.9	173.1	2,658	2,742	5,105	4,949	309	78
Gold Fields	GFIOF	213.37	883	12,782	48.1	96.9	2,216	2,301	5.768	5,555	266	132
Harmony Gold (12)	HGMCF	101.05	603	3,901	36.5	58.2	1,167	1,516	3,343	2,574	107	67
Sibanye	XSIWF	49.95	2,675	9,213	16.6	97.7	1,026	1,157	8,979	7,966	556	94
Market Cap Weighted Average									6,050	5,615	333	98
International Gold Producers												
Centamin Egypt ⁽⁵⁾	CELTF	203.50	1,153	2,793	8.8	14.8	514	534	5,429	5,229	317	189
Petropavlovsk ⁽⁵⁾	PPLKF	31.10	3,310	1,922	8.2	20.5	436	493	4,407	3,900	234	94
Polymetal (6, 9)	XPMYF	1960.50	469	10,736	25.4	46.4	1,374	1,333	7,812	8.052	423	232
Polyus ⁽²⁰⁾	XPLZF	17686.00	133	34,834	60.8	242.1	2,734	2,914	12,743	.,	573	144
Market Cap Weighted Average		. ,		,		, _ ,	,	,	10,121	9,636	514	169

Source: BofA Global Research estimates, Company reports

Note: All tickers represent BofA Global Research covered companies

(1) stock price in CAD; NAV in USD (2) CAD (3) AUD (4)ZAR (5) stock price in pence; NAV in USD, (6) NAV in CAD; (7) silver reserves, silver resources and silver mined in model (8) palladium reserves, palladium resources and palladium mined in model; (9) Reserves and resources on a GEO basis; (10) stock price in CAD, NAV in GBp, (11) stock price and NAV in TRY; (12) June 30th year end; (13) Forecasts based on management guidance; (14) Reserves and resources on an SEO basis (15) Reserves and resources on a Platinum Equivalent (4E->Paltainum + Palladium + Rhodium + Gold) basis; (16) stock price in ZAR, NAV in GBP; (17) stock price in ZAR, NAV in CAD; (18) stock price and NAV in HKD; (19) stock price and NAV in GBp. Real gold price assumptions: 2013: \$1,419/oz, long-term \$1,400/oz. Adjusted P/NAV = (share price - net cash and investments) / DCF of mining assets using a 5% discount rate. (20) stock price in RUB



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