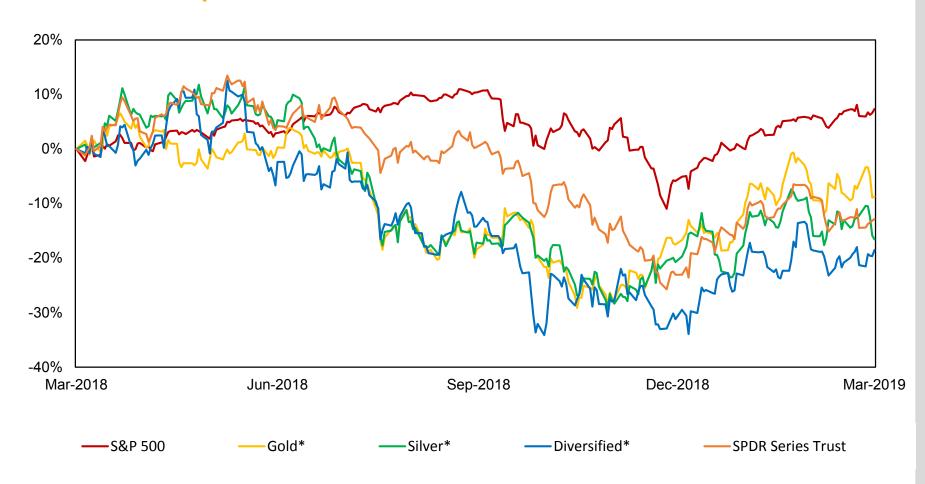


## MINING SECTOR NEWSLETTER

### MINING SECTOR LTM EQUITY PERFORMANCE



## **INSIDE THIS ISSUE**

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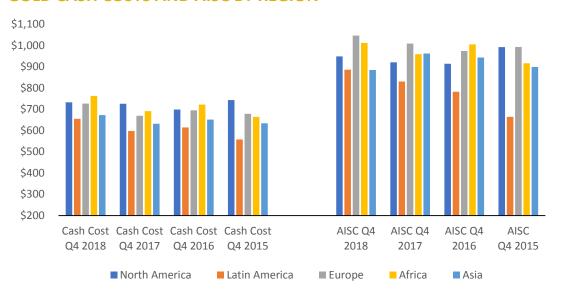
<sup>\*</sup> Noble Proprietary Sector (index composed of companies in the comparable table)
\*\* MINING Select Sector SPDR ETF (refer to disclosure section for more information)

## **MINING – FUNDAMENTAL DATA**

#### **GOLD SPOT PRICE**



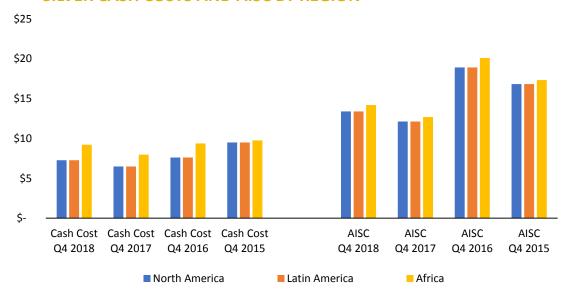
#### **GOLD CASH COSTS AND AISC BY REGION**



## **SILVER SPOT PRICE**



#### SILVER CASH COSTS AND AISC BY REGION







## METALS AND MINING INDUSTRY OUTLOOK

#### METALS AND MINING INDUSTRY OUTLOOK

Mining companies (as measured by the XME) increased 13.2% during the March quarter versus a 13.1% increase in the S&P 500 index. While the broader index gained each quarter, the XME rose 17.3% during the month of January before giving up some of its gain in March. Gold experienced a 3% increase in price in January but finished the quarter up only 0.8%, while the price of silver declined 2.2%.

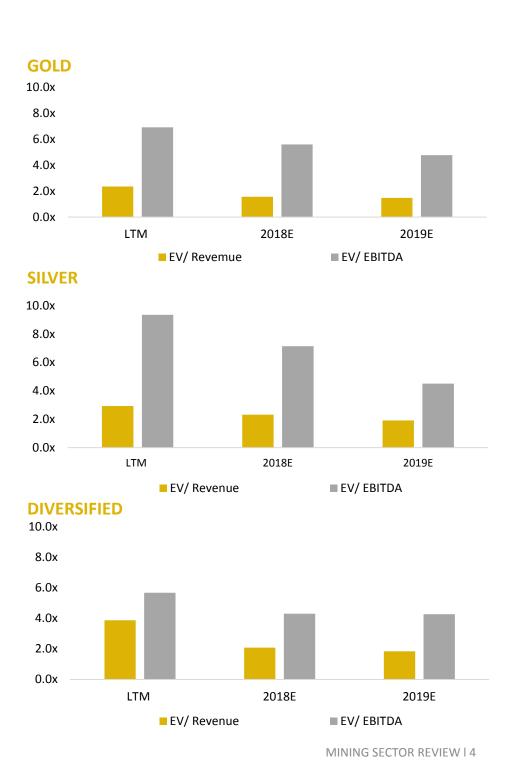
Softness in March may be attributed to dollar strength and optimism regarding resolution of trade and tariff issues with China. As concerns about a trade war with China ease, greater confidence in global markets has lifted the broader market and dimmed demand for gold as a safe-haven for investment. However, trade setbacks, poorer than expected economic numbers and greater market volatility could turn the tide back into gold's favor.

Conversely to its impact on gold prices, optimism around trade with China may have had a positive impact on certain base metals, including copper and zinc. During the first quarter, the price of copper and zinc rose 11.8% and 17%, respectively, while the price of lead was flat. We are optimistic regarding the outlook for copper. For use in communication devices to electric vehicles, demand for copper is expected to grow.

The current sentiment in the market right now seems to be near-term positive but intermediate-term wary. It is difficult to judge the trajectory and timing of the business cycle. However, investors may consider the inclusion of mining stocks as a way to participate in continued global economic growth or as a hedge against increased volatility.

Source: Capital IQ as of 03/29/2019, Mark Reichman





## **GOLD MINING**

## **COMPARABLE TABLES**

## **Major Gold Miner Index**

|                          |         | CHAI    | NGE IN   |        | % OF    | MARKET | TOTAL | ENT.  | LT       | M      |      | EV / REVENU | E     |       | EV / EBITDA |       |        |
|--------------------------|---------|---------|----------|--------|---------|--------|-------|-------|----------|--------|------|-------------|-------|-------|-------------|-------|--------|
|                          |         | STOCK   | ( PRICE  | SHARE  | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |       |             |       | EBITDA |
|                          | TICKER  | 3-MONTH | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM   | 2019E       | 2020E | MARGIN |
| Kinross Gold Corporation | TSX:K   | (70%)   | (13%)    | \$3.44 | 64%     | 4,310  | 1,735 | 5,737 | 3,213    | 976    | 1.8x | 1.8x        | 1.8x  | 5.9x  | 5.1x        | 4.8x  | 30%    |
| B2Gold Corp.             | TSX:BTO | 9%      | 2%       | \$2.80 | 64%     | 2,811  | 480   | 3,238 | 1,225    | 589    | 2.6x | 2.6x        | 2.4x  | 5.5x  | 5.5x        | 5.0x  | 48%    |
| Yamana Gold Inc.         | TSX:YRI | 26%     | (6%)     | \$2.60 | 62%     | 2,474  | 1,799 | 4,195 | 1,799    | 614    | 2.3x | 2.4x        | 2.3x  | 6.8x  | 6.0x        | 5.2x  | 34%    |
| Alamos Gold Inc.         | TSX:AGI | (27%)   | (2%)     | \$5.07 | 64%     | 1,974  | 3     | 1,758 | 652      | 208    | 2.7x | 2.7x        | 2.7x  | 8.5x  | 6.7x        | 5.9x  | 32%    |
| Detour Gold Corporation  | TSX:DGC | (2%)    | (7%)     | \$9.38 | 61%     | 1,649  | 249   | 1,768 | 776      | 282    | 2.3x | 2.3x        | 2.2x  | 6.3x  | 6.7x        | 6.0x  | 36%    |
| Eldorado Gold Corp       | TSX:ELD | (43%)   | 10%      | \$4.62 | 60%     | 731    | 603   | 1,109 | 459      | 83     | 2.4x | 1.8x        | 1.4x  | 13.4x | 5.0x        | 3.2x  | 18%    |

| Mean   | 2.4x | 2.2x | 2.1x | 7.7x | 5.8x | 5.0x | 33% |
|--------|------|------|------|------|------|------|-----|
| Median | 2.4x | 2.3x | 2.3x | 6.6x | 5.7x | 5.1x | 33% |

### **Intermediate Gold Miner Index**

|                            |         | CHAI    | NGE IN   |        | % OF    | MARKET | TOTAL | ENT.  | LT       | M      |      | EV / REVENU | JE    |       | EV / EBITDA | <b>V</b> |        |
|----------------------------|---------|---------|----------|--------|---------|--------|-------|-------|----------|--------|------|-------------|-------|-------|-------------|----------|--------|
|                            |         | STOCK   | ( PRICE  | SHARE  | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |       |             |          | EBITDA |
|                            | TICKER  | 3-MONTH | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM   | 2019E       | 2020E    | MARGIN |
| Golden Star Resources Ltd. | TSX:GSC | 33%     | 37%      | \$4.04 | 69%     | 440    | 101   | 371   | 273      | 45     | 1.4x | 1.3x        | 1.2x  | 8.3x  | 3.6x        | 2.9x     | 16%    |
| Wesdome Gold Mines Ltd.    | TSX:WDO | (2%)    | 108%     | \$3.16 | 58%     | 429    | 7     | 416   | 85       | 31     | 4.9x | 3.0x        | 1.9x  | 13.3x | 6.8x        | 4.9x     | 37%    |
| Teranga Gold Corporation   | TSX:TGZ | (1%)    | (17%)    | \$2.88 | 51%     | 310    | 87    | 378   | 313      | 113    | 1.2x | NM          | NM    | 3.4x  | NM          | NM       | 36%    |
| Argonaut Gold Inc.         | TSX:AR  | 28%     | (26%)    | \$1.41 | 53%     | 250    | 13    | 248   | 196      | 35     | 1.3x | 0.9x        | 0.8x  | 7.1x  | 2.7x        | 2.1x     | 18%    |
| Premier Gold Mines         | TSX:PG  | (4%)    | (47%)    | \$1.17 | 38%     | 246    | -     | 201   | 114      | 3      | 1.8x | 1.4x        | 1.2x  | NM    | 11.0x       | 12.5x    | 3%     |
| Corvus Gold Inc.           | TSX:KOR | (22%)   | (7%)     | \$1.56 | 46%     | 173    | -     | 169   | -        | (7)    | NM   | NM          | NM    | NM    | NM          | NM       | NM     |

| Mean   | 2.1x | 1.7x | 1.3x | 8.0x | 6.0x | 5.6x | 22% |
|--------|------|------|------|------|------|------|-----|
| Median | 1.4x | 1.4x | 1.2x | 7.7x | 5.2x | 3.9x | 18% |

Source: Capital IQ as of 03/29/2019





## **GOLD MINING**

## **COMPARABLE TABLES**

## **Junior Gold Miner Index**

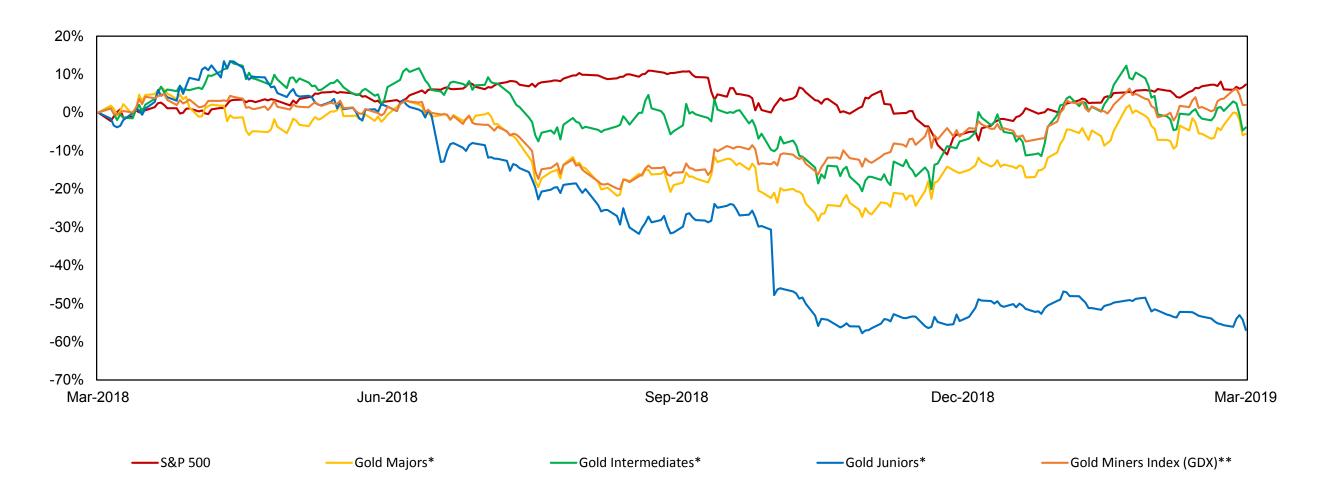
|                        |            | CHAN    | IGE IN   |         | % OF    | MARKET | TOTAL | ENT.  | L1       | M      |      | EV / REVENU | E     |      | EV / EBITDA |       |        |
|------------------------|------------|---------|----------|---------|---------|--------|-------|-------|----------|--------|------|-------------|-------|------|-------------|-------|--------|
|                        |            | STOCK   | PRICE    | SHARE   | 52 WEEK | CAP    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |      |             |       | EBITDA |
|                        | TICKER     | 3-MONTH | 12-MONTH | PRICE   | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM  | 2019E       | 2020E | MARGIN |
| Asanko Gold Inc.       | TSX:AKG    | 2%      | (38%)    | \$0.63  | 35%     | 142    | -     | 131   | 162      | 50     | 0.8x | 1.0x        | 0.7x  | 2.6x | 5.1x        | 2.1x  | 31%    |
| Guyana Goldfields Inc. | TSX:GUY    | (28%)   | (79%)    | \$0.81  | 15%     | 140    | 40    | 97    | 188      | 49     | 0.5x | 0.5x        | 0.4x  | 2.0x | 3.4x        | 1.2x  | 26%    |
| Contango Ore, Inc.     | OTCPK:CTGO | 13%     | 8%       | \$20.04 | 63%     | 127    | -     | 117   | -        | -      | NM   | NM          | NM    | NM   | NM          | NM    | NM     |
| Belo Sun Mining Corp   | TSX:BSX    | (24%)   | (19%)    | \$0.22  | 53%     | 94     | -     | 68    | 0        | (7)    | NM   | NM          | NM    | NM   | NM          | NM    | NM     |
| GoGold Resources Inc.  | TSX:GGD    | 53%     | (17%)    | \$0.26  | 49%     | 44     | -     | 27    | 19       | (27)   | 1.4x | 0.7x        | NM    | NM   | NM          | NM    | NM     |
| Mako Mining Corp.      | TSXV:MKO   | (17%)   | (63%)    | \$0.10  | 34%     | 30     | -     | 32    | 4        | (4)    | 7.9x | 0.7x        | 0.5x  | NM   | NM          | NM    | NM     |

| Mean   | 2.7x | 0.7x | 0.5x | 2.3x | 4.2x | 1.7x | 29% |
|--------|------|------|------|------|------|------|-----|
| Median | 1.1x | 0.7x | 0.5x | 2.3x | 4.2x | 1.7x | 29% |



## GOLD MINING LTM EQUITY PERFORMANCE

## (NOBLE INDEX SELECTION)



<sup>\*</sup> Noble Proprietary Sector (index composed of companies in the comparable table)



<sup>\*\*</sup> SPDR Gold Shares (refer to disclosure section for more information)



## **SILVER MINING**

## **COMPARABLE TABLES**

## **Major Silver Miner Index**

|                             |          | CHA     | NGE IN   |         | % OF    | MARKET | TOTAL | ENT.  | LT       | М      |      | EV / REVENU | E     |       | EV / EBITDA |       |        |
|-----------------------------|----------|---------|----------|---------|---------|--------|-------|-------|----------|--------|------|-------------|-------|-------|-------------|-------|--------|
|                             |          | STOCK   | PRICE    | SHARE   | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |       |             |       | EBITDA |
|                             | TICKER   | 3-MONTH | 12-MONTH | PRICE   | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM   | 2019E       | 2020E | MARGIN |
| Pan American Silver Corp.   | TSX:PAAS | (9%)    | (18%)    | \$13.21 | 55%     | 2,767  | 27    | 2,584 | 784      | 222    | 3.3x | 1.9x        | 1.6x  | 11.6x | 6.6x        | 4.5x  | 28%    |
| SSR Mining Inc.             | TSX:SSRM | 7%      | 31%      | \$12.64 | 63%     | 1,532  | 248   | 1,359 | 421      | 127    | 3.2x | 2.0x        | 1.7x  | 10.7x | 5.2x        | 4.0x  | 30%    |
| First Majestic Silver Corp. | TSX:FR   | 14%     | 8%       | \$6.58  | 59%     | 1,293  | 155   | 1,387 | 301      | 52     | 4.6x | 2.7x        | 2.1x  | NM    | 8.9x        | 5.8x  | 17%    |
| Hecla Mining Company        | NYSE:HL  | (1%)    | (37%)    | \$2.30  | 55%     | 1,111  | 546   | 1,629 | 567      | 173    | 2.9x | 2.5x        | 2.0x  | 9.4x  | 9.8x        | 6.5x  | 31%    |
| MAG Silver Corp.            | TSX:MAG  | 46%     | 9%       | \$10.68 | 68%     | 913    | -     | 776   | -        | (8)    | NM   | NM          | 4.8x  | NM    | NM          | NM    | NM     |
| Coeur Mining, Inc.          | NYSE:CDE | (8%)    | (49%)    | \$4.08  | 46%     | 837    | 459   | 1,181 | 626      | 123    | 1.9x | 1.6x        | 1.5x  | 9.6x  | 8.6x        | 4.9x  | 20%    |

| Mean   | 3.2x | 2.1x | 2.3x | 10.3x | 7.8x | 5.1x | 25% |
|--------|------|------|------|-------|------|------|-----|
| Median | 3.2x | 2.0x | 1.9x | 10.1x | 8.6x | 4.9x | 28% |

#### **Intermediate Silver Miner Index**

|                           |         | CHAI    | NGE IN   |        | % OF    | MARKET | TOTAL | ENT.  | LTI      | VI     |      | EV / REVENU | E     |       | EV / EBITDA |       |        |
|---------------------------|---------|---------|----------|--------|---------|--------|-------|-------|----------|--------|------|-------------|-------|-------|-------------|-------|--------|
|                           |         | STOC    | ( PRICE  | SHARE  | 52 WEEK | CAP    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |       |             |       | EBITDA |
|                           | TICKER  | 3-MONTH | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM   | 2019E       | 2020E | MARGIN |
| Fortuna Silver Mines Inc. | TSX:FVI | (8%)    | (36%)    | \$3.33 | 43%     | 533    | 78    | 446   | 263      | 113    | 1.7x | 1.8x        | 1.1x  | 3.9x  | 4.8x        | 2.6x  | 43%    |
| Silvercorp Metals Inc.    | TSX:SVM | 23%     | (5%)     | \$2.57 | 64%     | 435    | 4     | 375   | 174      | 83     | 2.2x | 2.1x        | NM    | 4.5x  | 4.9x        | 4.7x  | 48%    |
| Endeavour Silver Corp.    | TSX:EDR | 17%     | 4%       | \$2.52 | 57%     | 331    | -     | 297   | 151      | 20     | 2.0x | 1.6x        | 1.4x  | 14.5x | 11.4x       | 7.2x  | 14%    |
| Great Panther Mining      | TSX:GPR | 39%     | (21%)    | \$0.93 | 55%     | 254    | -     | 202   | 59       | (8)    | 3.4x | 2.4x        | 2.1x  | NM    | NM          | NM    | NM     |

| Mean   | 2.5x | 2.0x | 2.2x | 8.8x | 7.7x | 4.9x | 30% |
|--------|------|------|------|------|------|------|-----|
| Median | 2.2x | 2.0x | 1.9x | 9.9x | 8.2x | 4.9x | 27% |

Source: Capital IQ as of 03/29/2019



## **SILVER MINING**

## **COMPARABLE TABLES**

## **Junior Silver Miner Index**

|                           |          | CHAN    | IGE IN   |        | % OF    | MARKET | TOTAL | ENT.  | LT       | М      |      | EV / REVENU | Ē     |      | EV / EBITDA |       |        |
|---------------------------|----------|---------|----------|--------|---------|--------|-------|-------|----------|--------|------|-------------|-------|------|-------------|-------|--------|
|                           |          | STOCK   | PRICE    | SHARE  | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |      |             |       |      |             |       | EBITDA |
|                           | TICKER   | 3-MONTH | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM  | 2019E       | 2020E | LTM  | 2019E       | 2020E | MARGIN |
| Alexco Resource Corp.     | TSX:AXR  | 30%     | (10%)    | \$1.20 | 56%     | 131    | -     | 124   | 15       | (5)    | 8.5x | 10.4x       | 1.7x  | NM   | NM          | NM    | NM     |
| Bear Creek Mining         | TSXV:BCM | 41%     | (40%)    | \$1.08 | 41%     | 111    | -     | 100   | -        | (12)   | NM   | NM          | NM    | NM   | NM          | NM    | NM     |
| Americas Silver Corp      | TSX:USA  | 0%      | (50%)    | \$1.65 | 31%     | 75     | 14    | 86    | 68       | 5      | 1.3x | 0.7x        | 0.4x  | NM   | 2.8x        | 1.4x  | 7%     |
| Excellon Resources Inc.   | TSX:EXN  | 27%     | (45%)    | \$0.64 | 39%     | 63     | 1     | 57    | 24       | (3)    | 2.3x | 0.9x        | 0.8x  | NM   | NM          | NM    | NM     |
| Avino Silver & Gold Mines | TSX:ASM  | 3%      | (56%)    | \$0.61 | 31%     | 39     | 10    | 46    | 34       | 5      | 1.3x | 0.8x        | 0.7x  | 8.6x | 3.4x        | 2.7x  | 16%    |
| Kootenay Silver Inc       | TSXV:KTN | (5%)    | (30%)    | \$0.10 | 53%     | 24     | -     | 22    | -        | (2)    | NM   | NM          | NM    | NM   | NM          | NM    | NM     |

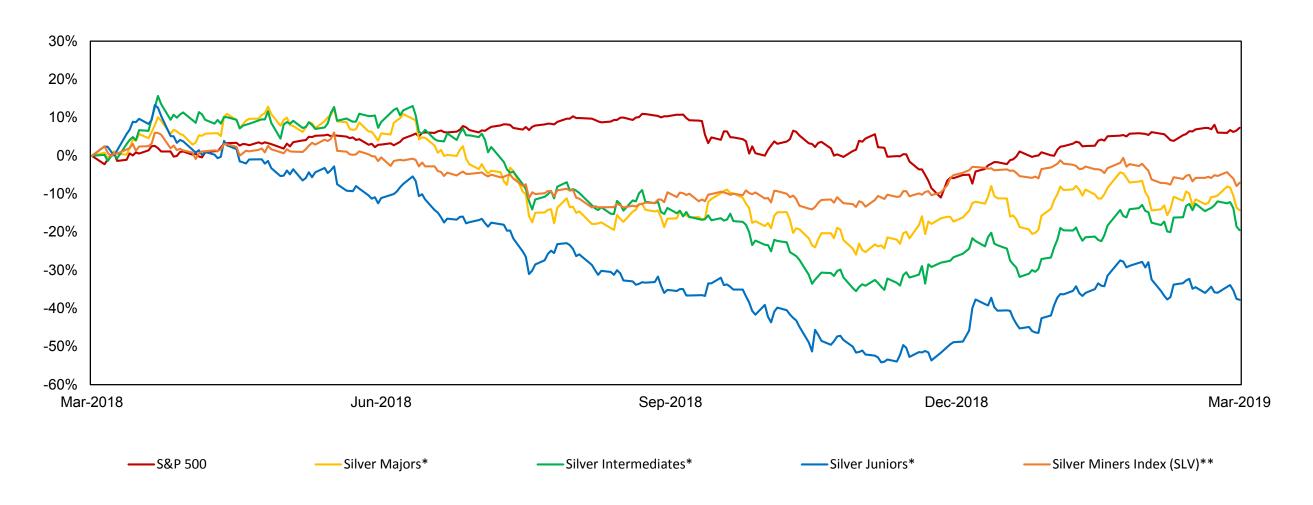
| Mean   | 3.4x | 3.2x | 0.9x | 8.6x | 3.1x | 2.1x | 11% |
|--------|------|------|------|------|------|------|-----|
| Median | 1.8x | 0.9x | 0.8x | 8.6x | 3.1x | 2.1x | 11% |



## **SILVER MINING**

## LTM EQUITY PERFORMANCE

(NOBLE INDEX SELECTION)



<sup>\*</sup> Noble Proprietary Sector (index composed of companies in the comparable table)

Source: Capital IQ as of 03/29/2019



<sup>\*\*</sup> SPDR Gold Shares (refer to disclosure section for more information)

## GOLD & SILVER LTM GLOBAL M&A ACTIVITY

| Date       | Buyer   | Seller   | Transaction Value | EV/Revenue | EV/EBITDA |
|------------|---|--|-------------------|------------|-----------|
| 02/25/2019 | Evolution Mining Limited (ASX:EVN)                          | Tribune Resources Limited (ASX:TBR)                                  | 29.6              | 0.4x       | 0.4x      |
| 01/11/2019 | Endeavour Mining Corporation (TSX:EDV)                      | Société des Mines d'Ity S.A.   | 17.6              | -          | -         |
| 01/07/2019 | Ascot Resources Ltd. (TSXV:AOT)                             | IDM Mining Ltd.  | 33.5              | -          | -         |
| 12/04/2018 | Combined Success Investments Limited                        | Tongguan Tongjin Mining Company Limited/Shaanxi Dujin Mining Company | 45.5              | -          | -         |
| 11/22/2018 | A.V.O.D. Kurutulmus Gida ve Tarim Urunleri A.S. (IBSE:AVOD) | Avod Altin Madencilik Enerji Ins.San.ve Tic. A.S.                    | 10.4              | -          | -         |
| 11/14/2018 | Pan American Silver Corp. (TSX:PAAS)                        | Tahoe Resources Inc.   | 1,390.9           | 2.7x       | 2.7x      |
| 11/14/2018 | Silver Lake Resources Limited (ASX:SLR)                     | Doray Minerals Limited (ASX:DRM)                                     | 123.6             | 1.0x       | 1.0x      |
| 10/27/2018 | PT Renuka Coalindo Tbk (IDX:SQMI)                           | PT Wilton Investment   | 248.0             | -          | -         |
| 10/25/2018 | KG Mining (Bald Mountain) Inc.                              | The Bald Mountain Exploration Joint Venture                          | 15.5              | -          | -         |
| 10/12/2018 | OZD Asia Pte Ltd.   | Boroo Gold LLC/Centerra Gold Mongolia LLC                            | 35.0              | -          | -         |
| 09/30/2018 | Americas Silver Corporation (TSX:USA)                       | Pershing Gold Corporation (NasdaqGM:PGLC)                            | 65.9              | -          | -         |
| 09/24/2018 | Barrick Gold Corporation (TSX:ABX)                          | Barrick Gold (Holdings) Limited                                      | 6,515.5           | 5.0x       | 5.0x      |
| 09/10/2018 | Ramelius Resources Limited (ASX:RMS)                        | Explaurum Limited  | 47.4              | -          | -         |
| 09/04/2018 | BHP Group (ASX:BHP)   | SolGold plc (LSE:SOLG)   | 35.2              | -          | -         |
| 08/10/2018 | -   | Pretium Resources Inc. (TSX:PVG)                                     | 27.0              | 3.9x       | 3.9x      |
| 08/09/2018 | PT Danusa Tambang Nusantara                                 | PT Agincourt Resources   | 1,140.0           | -          | -         |
| 08/04/2018 | Shengda Mining Co.Ltd. (SZSE:000603)                        | Inner Mongolia Jinshan Mining Co., Ltd.                              | 181.7             | -          | -         |
| 08/02/2018 | Coeur Mining, Inc. (NYSE:CDE)                               | Northern Empire Resources Corp. (TSXV:NM)                            | 80.8              | -          | -         |
| 07/17/2018 | Inca One Gold Corp. (TSXV:IO)                               | Anthem United Inc.   | 7.2               | 0.3x       | 0.3x      |
| 07/05/2018 | Goldcorp Inc. (TSX:G)                                       | Gold Standard Ventures Corp (TSX:GSV)                                | 9.7               | -          | -         |
| 06/25/2018 | Bardoc Gold Limited (ASX:BDC)                               | Excelsior Gold Limited   | 25.2              | 0.9x       | 0.9x      |
| 06/18/2018 | Bonterra Resources Inc. (TSXV:BTR)                          | Metanor Resources Inc. (TSXV:MTO)                                    | 57.7              | 2.3x       | 2.3x      |
| 06/04/2018 | Consolidated Mining & Civil Pty Ltd                         | Benagerie Gold Pty Ltd   | 10.3              | -          | -         |
| 05/15/2018 | Mako Mining Corp. (TSXV:MKO)                                | Marlin Gold Mining Ltd. (TSXV:MLN)                                   | 80.1              | 2.1x       | 2.1x      |
| 05/14/2018 | Rio2 Limited (TSXV:RIO)                                     | Atacama Pacific Gold Corporation                                     | 63.8              | -          | -         |
| 05/10/2018 | Kirkland Lake Gold Ltd. (TSX:KL)                            | Novo Resources Corp. (OTCPK:NSRP.F)                                  | 15.6              | -          | -         |
| 05/10/2018 | Metalla Royalty & Streaming Ltd. (TSXV:MTA)                 | ValGold Resources Ltd. (TSXV:VAL)                                    | 6.5               | -          | -         |
| 05/05/2018 | Joint-Stock Company AK Altynalmas                           | Aktogai Mys LLC  | 33.5              | -          | -         |
| 04/23/2018 | -   | Belo Sun Mining Corp (TSX:BSX)                                       | 11.6              | -          | -         |
| 04/23/2018 | -   | Belo Sun Mining Corp (TSX:BSX)                                       | 7.8               | -          | -         |
|            |   | Mean   |                   | 2.0x       | 2.0x      |
|            |   |  |                   |            |           |

Source: Capital IQ as of 03/29/2019





## **DIVERSIFIED MINING**

## **COMPARABLE TABLES**

## **Major Diversified Miner Index**

|                          |            | CHANGE IN |          |         | % OF    | MARKET | TOTAL | ENT.   | LT       | М      | EV / REVENUE |       |       | EV / EBITDA |       |       |        |
|--------------------------|------------|-----------|----------|---------|---------|--------|-------|--------|----------|--------|--------------|-------|-------|-------------|-------|-------|--------|
|                          |            | STOCK     | ( PRICE  | SHARE   | 52 WEEK | CAP    | DEBT  | VALUE  | REVENUES | EBITDA |              |       |       |             |       |       | EBITDA |
|                          | TICKER     | 3-MONTH   | 12-MONTH | PRICE   | HIGH    | (\$M)  | (\$M) | (\$M)  | (\$M)    | (\$M)  | LTM          | 2019E | 2020E | LTM         | 2019E | 2020E | MARGIN |
| Teck Resources Limited   | TSX:TECK.B | 10%       | (10%)    | \$23.13 | 59%     | 13,116 | 4,045 | 16,048 | 9,207    | 3,548  | 1.7x         | 1.3x  | 1.4x  | 4.5x        | 3.1x  | 3.4x  | 39%    |
| First Quantum Minerals   | TSX:FM     | 43%       | (19%)    | \$11.34 | 49%     | 7,767  | 8,698 | 16,606 | 3,966    | 1,723  | 4.2x         | 3.8x  | 2.9x  | 9.6x        | 8.5x  | 5.9x  | 43%    |
| Lundin Mining            | TSX:LUN    | 15%       | (29%)    | \$4.64  | 52%     | 3,416  | 11    | 3,107  | 1,726    | 621    | 1.8x         | 1.7x  | 1.4x  | 5.0x        | 4.4x  | 3.0x  | 36%    |
| Turquoise Hill Resources | TSX:TRQ    | 6%        | (46%)    | \$1.65  | 39%     | 3,312  | 4,187 | 5,021  | 1,180    | 370    | 4.3x         | 4.8x  | 3.7x  | 13.6x       | NM    | 10.2x | 31%    |
| Hudbay Minerals Inc.     | TSX:HBM    | 52%       | 1%       | \$7.15  | 73%     | 1,867  | 1,055 | 2,418  | 1,472    | 630    | 1.6x         | 1.8x  | 1.8x  | 3.8x        | 4.8x  | 4.1x  | 43%    |
|                          |            |           |          |         |         |        |       |        |          |        |              |       |       |             |       |       |        |
|                          |            |           |          |         |         |        |       |        |          | Mean   | 2.7x         | 2.7x  | 2.2x  | 7.3x        | 5.2x  | 5.3x  | 38%    |
|                          |            |           |          |         |         |        |       |        |          | Median | 1.8x         | 1.8x  | 1.8x  | 5.0x        | 4.6x  | 4.1x  | 39%    |

#### **Intermediate Diversified Miner Index**

|                       |           | CHANGE IN |          |        | % OF    | MARKET | TOTAL | ENT.  | LT       | М      | EV / REVENUE |       |       | EV / EBITDA |       |       |        |
|-----------------------|-----------|-----------|----------|--------|---------|--------|-------|-------|----------|--------|--------------|-------|-------|-------------|-------|-------|--------|
|                       |           | sтоск     | PRICE    | SHARE  | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |              |       |       |             |       |       | EBITDA |
|                       | TICKER    | 3-MONTH   | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM          | 2019E | 2020E | LTM         | 2019E | 2020E | MARGIN |
| Energy Fuels Inc.     | TSX:EFR   | 21%       | 97%      | \$3.31 | 62%     | 303    | 16    | 281   | 32       | (16)   | 8.9x         | 3.8x  | 1.8x  | NM          | NM    | 6.2x  | NM     |
| Imperial Metals Corp  | TSX:III   | 103%      | 30%      | \$2.15 | 62%     | 274    | 639   | 911   | 264      | 22     | 3.5x         | 4.2x  | 6.1x  | NM          | NM    | NM    | 8%     |
| Sierra Metals Inc.    | AMEX:SMTS | (6%)      | (36%)    | \$1.63 | 56%     | 264    | 56    | 330   | 232      | 87     | 1.4x         | 0.9x  | 0.7x  | 3.8x        | 2.0x  | 1.6x  | 38%    |
| Capstone Mining Corp. | TSX:CS    | 13%       | (49%)    | \$0.48 | 37%     | 191    | 217   | 458   | 416      | 124    | 1.1x         | 1.1x  | 1.0x  | 3.7x        | 4.0x  | 3.2x  | 30%    |
| Panoramic Resources   | ASX:PAN   | 18%       | (15%)    | \$0.30 | 45%     | 151    | 30    | 171   | 1        | (5)    | NM           | 1.4x  | 0.8x  | NM          | 4.1x  | 2.0x  | NM     |

Mean 3.7x 2.3x 2.1x 3.7x 3.3x 3.3x 25% 3.7x 4.0x 30% Median 2.4x 1.4x 1.0x 2.6x

Source: Capital IQ as of 03/29/2019



## **DIVERSIFIED MINING**

## **COMPARABLE TABLES**

### **Junior Diversified Miner Index**

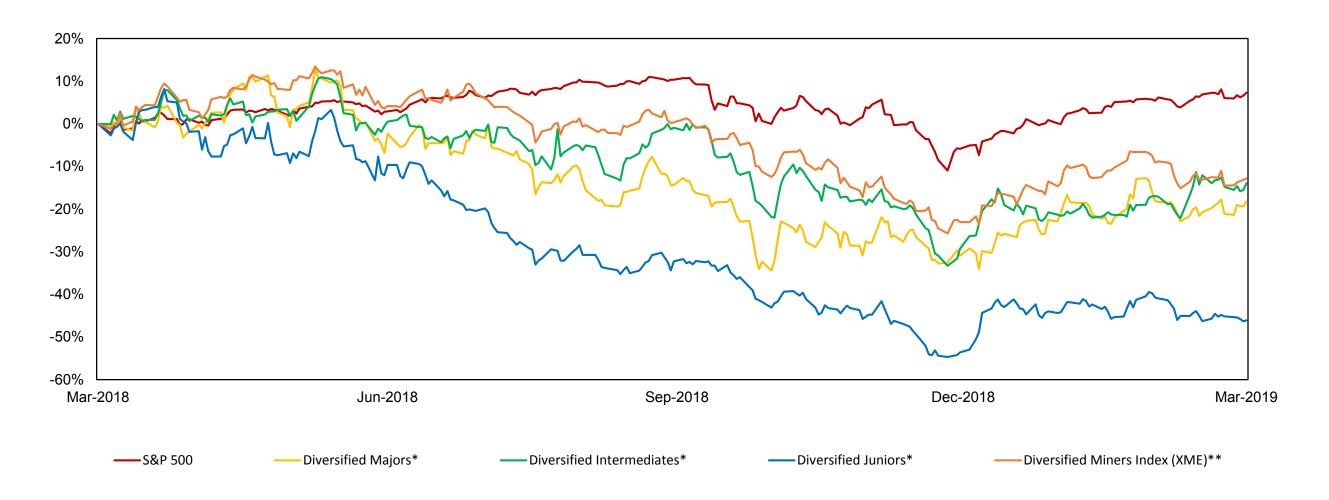
|                          |          | CHANGE IN |          |        | % OF    | MARKET | TOTAL | ENT.  | LT       | M      | EV / REVENUE |       | EV / EBITDA |      |       |       |        |
|--------------------------|----------|-----------|----------|--------|---------|--------|-------|-------|----------|--------|--------------|-------|-------------|------|-------|-------|--------|
|                          |          | STOC      | K PRICE  | SHARE  | 52 WEEK | САР    | DEBT  | VALUE | REVENUES | EBITDA |              |       |             |      |       |       | EBITDA |
|                          | TICKER   | 3-MONTH   | 12-MONTH | PRICE  | HIGH    | (\$M)  | (\$M) | (\$M) | (\$M)    | (\$M)  | LTM          | 2019E | 2020E       | LTM  | 2019E | 2020E | MARGIN |
| Taseko Mines Limited     | TSX:TKO  | 24%       | (50%)    | \$0.58 | 32%     | 144    | 261   | 373   | 252      | 67     | 1.5x         | 1.0x  | 1.0x        | 5.6x | 3.6x  | 3.0x  | 26%    |
| Tinka Resources Limited  | TSXV:TK  | 7%        | (27%)    | \$0.26 | 45%     | 68     | -     | 59    | -        | (2)    | NM           | NM    | NM          | NM   | NM    | NM    | NM     |
| Western Copper and Gold  | TSX:WRN  | 36%       | (28%)    | \$0.57 | 44%     | 57     | -     | 54    | -        | -      | NM           | NM    | NM          | NM   | NM    | NM    | NM     |
| Falco Resources Ltd.     | TSXV:FPC | 11%       | (61%)    | \$0.24 | 30%     | 50     | 15    | 64    | -        | (4)    | NM           | NM    | NM          | NM   | NM    | NM    | NM     |
| Atico Mining Corporation | TSXV:ATY | 13%       | (51%)    | \$0.24 | 36%     | 24     | 5     | 29    | 56       | 20     | 0.5x         | NM    | NM          | 1.4x | NM    | NM    | 35%    |
| Tasman Resources Ltd     | ASX:TAS  | (32%)     | (37%)    | \$0.03 | 28%     | 14     | 1     | 21    | 1        | (6)    | 15.6x        | NM    | NM          | NM   | NM    | NM    | NM     |

| Mean   | 5.9x | 1.0x | 1.0x | 3.5x | 3.6x | 3.0x | 31% |
|--------|------|------|------|------|------|------|-----|
| Median | 1.5x | 1.0x | 1.0x | 3.5x | 3.6x | 3.0x | 31% |



## DIVERSIFIED MINING LTM EQUITY PERFORMANCE

(NOBLE INDEX SELECTION)



<sup>\*</sup> Noble Proprietary Sector (index composed of companies in the comparable table)

Source: Capital IQ as of 03/29/2019



<sup>\*\*</sup> SPDR Gold Shares (refer to disclosure section for more information)

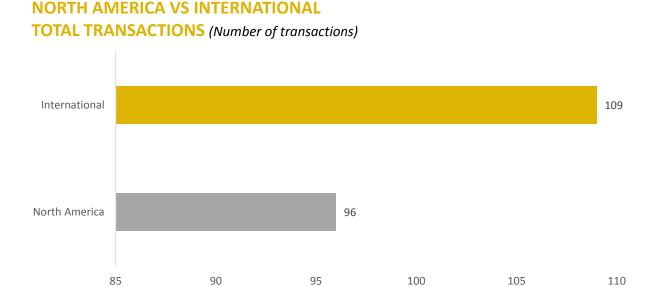
## DIVERSIFIED MINING LTM GLOBAL M&A ACTIVITY

| Date       | Buyer   | Seller   | Transaction Value | EV/Revenue | EV/EBITDA |
|------------|---|--|-------------------|------------|-----------|
| 04/01/2019 | Jervois Mining Limited (ASX:JRV)  | eCobalt Solutions Inc. (TSX:ECS)                         | 41.5              | -          | -         |
| 03/26/2019 | Wesfarmers Limited (ASX:WES)  | Lynas Corporation Limited (ASX:LYC)                      | 1,304.3           | 5.0x       | 31.9x     |
| 03/15/2019 | Sichuan Jiangxi Copper Rare Earth Co., Ltd.                             | Liangshan Mining & Smelting Investment Holding Co., Ltd. | 11.2              | -          | -         |
| 03/11/2019 | CD Capital Asset Management Ltd,  | Verdant Minerals Ltd (ASX:VRM)                           | 17.2              | -          | -         |
| 03/09/2019 | Puyang Refractories Group Co., Ltd. (SZSE:002225)                       | Tibet Changdu Xiangchen Magnesium Industry Co., Ltd.     | 89.4              | -          | -         |
| 03/08/2019 | Phoenix Bridge International Holdings Group Investment Company, Limited | Anchor Resources Limited (ASX:AHR)                       | 12.8              | -          | -         |
| 02/27/2019 | Xuchen International Co., Ltd.  | Nzuri Copper Limited (ASX:NZC)                           | 82.8              | -          | -         |
| 01/29/2019 | Chengyu Vanadium Titano Technology Ltd                                  | Huili County Caitong Iron and Titanium Co., Ltd.         | 81.7              | -          | -         |
| 01/22/2019 | Jervois Mining Limited (ASX:JRV)  | M2 Cobalt Corp. (TSXV:MC)                                | 12.6              | -          | -         |
| 01/15/2019 | Pluspetrol Resources Corporation B.V.                                   | LSC Lithium Corporation (TSXV:LSC)                       | 85.1              | -          | -         |
| 01/01/2019 | Cobalt 27 Capital Corp. (TSXV:KBLT)                                     | Highlands Pacific Limited (ASX:HIG)                      | 201.4             | -          | 26.7x     |
| 11/12/2018 | Tantalex Resources Corporation (CNSX:TTX)                               | International Cobalt Corp. (CNSX:CO)                     | 11.6              | -          | -         |
| 11/11/2018 | Tiger Resort Asia Limited   | Asiabest Group International, Inc. (PSE:ABG)             | 6.1               | -          | -         |
| 11/08/2018 | Yongxing Special Stainless Steel Co., Ltd. (SZSE:002756)                | Jiangxi Xuli Mining Co., Ltd.                            | 28.4              | 7.0x       | -         |
| 10/10/2018 | -   | Largo Resources Ltd. (TSX:LGO)                           | 28.8              | 3.7x       | 5.2x      |
| 09/26/2018 | Chengtun Mining Group Co., Ltd. (SHSE:600711)                           | Sihuan Zinc & Germanium Technology Co., Ltd.             | 446.8             | 1.3x       | 15.7x     |
| 09/24/2018 | Great Panther Mining Limited (TSX:GPR)                                  | Great Panther Mining Limited                             | 182.7             | 1.1x       | -         |
| 09/13/2018 | Bushveld Minerals Limited (AIM:BMN)                                     | Strategic Minerals Corporation                           | 17.5              | -          | -         |
| 09/13/2018 | Ramelius Resources Limited (ASX:RMS)                                    | Black Oak Minerals Limited                               | 8.0               | -          | -         |
| 08/28/2018 | Virtus Mining Ltd.  | Aldridge Minerals Inc. (TSXV:AGM)                        | 45.1              | -          | -         |
| 08/14/2018 | Osisko Mining Inc. (TSX:OSK)  | Beaufield Resources Inc. (TSXV:BFD)                      | 9.6               | -          | -         |
| 07/26/2018 | -   | Advantage Lithium Corp. (TSXV:AAL)                       | 5.1               | -          | -         |
| 07/05/2018 | Tuochuan Capital Limited  | Hanking (Indonesia) Mining Limited                       | 52.7              | -          | -         |
| 07/02/2018 | -   | Vedanta Resources Limited                                | 1,011.1           | 1.3x       | 4.8x      |
| 06/29/2018 | Sims Metal Management Limited (ASX:SGM)                                 | Sims Pacific Metals Limited                              | 28.5              | -          | -         |
| 06/27/2018 | Public Joint Stock Company Dorogobuzh                                   | CJSC Verkhnekamsk Potash Company                         | 250.5             | -          | -         |
| 06/18/2018 | South32 Limited (ASX:S32)   | Arizona Mining Inc.                                      | 1,341.8           | -          | -         |
| 05/17/2018 | Greyhorse Mining (Pty) Ltd.   | Dundee Precious Metals Tsumeb (Pty) Ltd.                 | 20.0              | -          | -         |
| 04/27/2018 | ERAMET S.A. (ENXTPA:ERA)  | Mineral Deposits Limited                                 | 245.2             | -          | -         |
| 04/24/2018 | The Electrum Group LLC  | Trilogy Metals Inc. (TSX:TMQ)                            | 5.8               | -          | -         |
|            |   | Mean   |                   | 3.2x       | 16.9x     |
|            |   | Median   |                   | 2.5x       | 15.7x     |

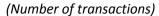
Source: Capital IQ as of 03/29/2019

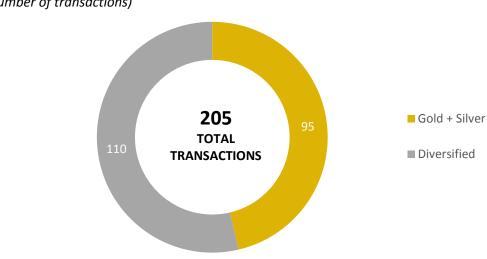


## LTM MINING INDUSTRY M&A SUMMARY

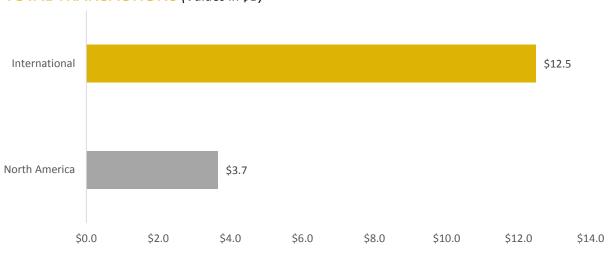






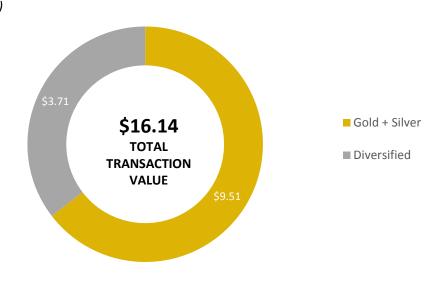


# NORTH AMERICA VS INTERNATIONAL TOTAL TRANSACTIONS (Values in \$B)



## **TOTAL TRANSACTION VALUE**

(Values in \$B)





## **NOBLE QUARTERLY HIGHLIGHTS**

## **Jupiter Gold Corporation (OTC: JUPGF)**

#### **Industry: Metals and Mining - Gold**

Jupiter Gold Corporation is a exploration stage mining company with a focus on gold projects in Brazil. The company owns 6 mining projects, 11 mineral rights and about 98,000 acres across Brazil. Jupiter Gold also owns a fully operational gold recovery plant in Brazil, recently placed in a mining concession. The plant utilizes centrifugation for recovery of particulate gold. Jupiter Gold Corporation is a subsidiary of Brazil Minerals Inc. (OTCPK:BMIX), a exploration company with a diversified portfolio of projects focusing on gold, diamond, cobalt, copper, iron, lithium, manganese and nickel.

#### 1<sup>st</sup> Quarter News Highlight:

On February 22, 2019 Jupiter Gold announced the addition of a primary gold project to its asset base. The property consists of more than 4,750 acres in the direct continuation of a gold trend with settler activity. Samples collected by the Company from a trench opened by such settlers and analyzed in a SGS-Geosol laboratory showed results as high as 71 grams of gold per ton in quartz veins hosted in amphibolites, phyllites, and granodiorites.



## **BeMetals Corp. (TSXV:BMET)**

#### Industry: Metals and Mining - Precious Metals and Minerals

BeMetals Corp. is an exploration and development mining company focusing on acquiring base metal projects. The company founders are well known executives in the industry. BeMetals Corp.'s current project portfolio includes the Pangeni Copper Project, an exploration copper project in Zambia, and South Mountain Project, a newly acquired zinc-silver exploration project in Idaho.

## 1st Quarter News Highlight:

On February 28, 2019, BeMetals Corp. entered into an option agreement with Thunder Mountain Gold, Inc. to acquire up to 100% interest in the South Mountain Project, in southwest Idaho. The South Mountain Project is a zinc-silver focused polymetallic development project located primarily on private property, which was the subject of high-grade historic mining up until the 1960's. The company later announced a \$5 million financing on April 4, 2019. The proceeds of this raise will go to development on the South Mountain Project.



## Rise Gold Corp. (OTCPK:RYES)

### Industry: Metals and Mining - Precious Metals and Minerals

Rise Gold is an exploration-stage mining company. The Company's principal asset is the historic past-producing Idaho-Maryland Gold Mine located in Nevada County, California. The Idaho-Maryland Gold Mine is a past producing gold mine with total past production of 2,414,000 oz of gold at an average mill head grade of 17 gpt gold from 1866-1955. Historic production at the Idaho-Maryland Mine is disclosed in the Technical Report on the Idaho-Maryland Project dated.

## 1st Quarter News Highlight:

On March 19, 2019, Rise Gold Corp. announced additional assay results from on-going diamond core drilling at the Idaho-Maryland Gold Project. The company believes the drill program continued to be successful showing high grade mineralization. Drill hole 19-13A assayed 90.4 gpt gold over 4.27 m (2.6 oz per ton / 14 feet). Additional drilling targeting Idaho #1 Vein is currently in progress.



Source: Company Press Releases



MINING SECTOR REVIEW I 17

# $R+(e^2+p^2)=1$

# **NOBLE CAPITAL MARKETS**

## **NOBLE CAPITAL MARKETS**

NOBLE CAPITAL MARKETS is a research-driven investment and merchant bank focused on small cap, emerging growth companies in the healthcare, technology, media and natural resources sectors. That's what we are. Who we are is what makes us different.

Our people are talented, dedicated, experienced professionals who come together with a common cause; advising on long-term client solutions by employing innovative, collaborative and responsive strategies. We're passionate and personable. We approach things from our clients' perspective.

We know that developing lasting relationships is reliant upon putting our clients' interests before ours. We understand the impact of our services. Insightful advisory and effective capital procurement can change lives. Empowering our clients to create employment, engineer technological and medical breakthroughs, producing products and services that lay the foundation for the future. For more than 30 years these have been our guiding principles. While much has changed over the three decades since we began, these core values and our reputation have not. Our clients must know what to expect from us. Then we can strive to exceed expectations.

# A SIMPLE FORMULA OUR VALUE PROPOSITION.

It starts with research with a fundamental belief that information guides the management process, NOBLE understands that there is no short-path to success. With this as a solid foundation, apply experience and execution delivered by people with passion. This is our formula to add value to your creation.

Research + Experience & Execution + People with Passion = Value

## **FULL-SERVICE INVESTMENT BANK**

- Established 1984.
- Private firm, employee owned.
- Built on commitment to provide value and support for our clients.

## **FOCUSED INSTITUTIONAL SALES AND TRADING**

- Seasoned sales and sales trading team.
- Long standing relationships with premier growth- focused investors.

## **INVESTMENT BANKING COMMITMENT**

- Proven track record.
- Senior level attention to every client and transaction.
- Ability to deliver complete "mind share" of NOBLE on all transactions.

## RESEARCH DRIVEN CAPITAL MARKETS PLATFORM

- Experience team of Research Analysts covering approximately 100 companies.
- Focus on Technology, Media, Healthcare and Natural Resources.
- Strong Institutional Sponsorship.



# $R + (e^2 + p^2) = 1$

## **INVESTMENT BANKING**

Our investment banking team, together with our well-recognized equity research analysts and the equity capital markets group, provide our clients with fundamental capital markets advisory and support - prior, during and most importantly, after a transaction. NOBLE's investment banking team works closely with the management and Board of our corporate clients in order to fully understand operational and financial objectives. With this knowledge our banking team will develop an efficient and effective advisory program which offers a variety of services including:

## **EQUITY CAPITAL MARKETS**

- Secondary and Follow-on Offerings
- Registered Direct Offerings
- Initial Public Offerings
- At the market Offerings (ATM's)
- PIPEs/Private Sale Offerings

## **DEBT CAPITAL MARKETS**

- Senior Debt
- Mezzanine
- Convertible Debt
- Bridge Financings

## **ADVISORY SERVICES**

- Merger & Acquisitions
- Fairness Opinions
- Valuation Services

## SELECT NATURAL RESOURCES TRANSACTIONS



















## **VALUATION SERVICES**

NOBLE's Valuation and Advisory Services team specializes in providing business and intangible asset valuations, fairness opinions, financial and strategic analysis, and transaction support services covering a broad spectrum of industries and situations from early stage, middle market and Fortune 500 companies and capital market constituents. NOBLE's team is made up of professionals with numerous accreditations and bring excellence in accounting, taxation, and financial due diligence to provide companies with valuation advice for a multitude of purposes.

**Valuation** – NOBLE's professionals have significant experience in the valuation of privately owned and public businesses across a wide range of industries. We perform an extensive analysis of the business as well as evaluate industry trends and various other factors in order to inform our clients as to the likely range of value they can expect. Our services are characterized by intellectual and analytical rigor and our conclusions are backed by thorough documentation.

Chief Accounting Officers, Corporate Controllers, CFOs, and Corporate Boards rely on Noble's experienced valuation professionals to produce sophisticated, supportable, and timely valuations to assist in complying with financial reporting requirements, including:

- Purchase price allocation and fresh start accounting
- Goodwill and long-lived asset impairment testing
- Tangible asset valuation
- Fair Value measurement of financial assets & liabilities

**Opinions** - Whether our clients are looking to fulfill their fiduciary duties, mitigate risk or determine corporate value, we are there throughout the transaction process to offer objective advice based on rigorous analysis. We work on behalf of boards of directors, investors, trustees and other corporate leaders to advise and provide opinions on a wide range of transactions.

We have advised Corporate Boards, special transaction committees, independent trustees, management and other fiduciaries of middle market public and private companies on the financial aspects of a transaction. Our independent advice withstands scrutiny from shareholders, bondholders, the SEC, IRS, or counterparties to a transaction

## **MERCHANT BANKING**

Our Principal Investment focus is primarily on private and small-cap public (\$10mill to \$50mill market caps) companies in industries within NOBLE's research verticals. Investments are made directly by NOBLE and its affiliates and may also involve syndicate participants. We work to identify those companies with game-changing or superior products and technologies that have management teams with proven track-records of success. NOBLE structures investments to meet a company's capital needs whether its growth capital, liquidity or debt repayment. Capital commitment ranges from \$200k to \$2million principal and \$2million above with syndicate.

The scope of our Merchant Banking activities includes:

- Targeting domestic companies within our areas of focus and expertise
- Analyzing a company's opportunities and assessing its risks within their respective industry
- Structuring, negotiating and executing the transaction
- Work in assessing the appropriate time and manner in which to harvest the investment

NOBLE's Merchant Banking Team works continuously with our portfolio companies to assist the management team and Board of Directors to create value and grow their businesses to facilitate long-term shareholder value. Through our extensive sector research coverage, institutional investor non-deal road shows, equity conferences and market making, we blend a powerful mix of capital markets acumen to procure success.

# $R + (e^2 + p^2) = 16$

## INVESTMENT BANKING TEAM

## **Richard Giles, Managing Director**

rgiles@noblecapitalmarkets.com - 617.692.9346

- Joined NOBLE in 2010 as Head of the Technology, Media & Telecommunications Investment Banking Group
- 25 years of investment banking experience.
- Executed more than 100 M&A and capital raising transactions totaling \$10+ billion
- Former head of Stifel Nicolaus' Technology Group.
- Former head of A.G. Edwards' Emerging Growth.
   Group and member of Investment Committee for A.G. Edwards Capital
- A.B. Harvard College; M.B.A., Harvard Business School

## Francisco Penafiel, Managing Director

fpenafiel@noblecapitalmarkets.com - 561.994.5740

- Executed M&A and capital raising transactions totaling over \$1 billion dollars in value
- 7 years of sell side equity research experience, covering enterprise & infrastructure software, business services, media, communications, and banks
- 6 years of portfolio managing experience
- Manage the business development efforts in LATAM for NOBLE
- Engineering, IT & Statistics, Escuela Superior
   Politecnica (Guayaquil, Ecuador); M.S. Economics,
   Florida Atlantic University

### Juan Arvelo, Director

jarvelo@noblecapitalmarkets.com - 561.994.5731

- More than 18 years of corporate finance and capital markets experience, with a special focus on M&A, restructuring and capital raising transactions.
- Previous Director at Enkeros Investments and Activa Capital Markets
- Former CFO of LS Energia
- Main focus in the QSR, financial institutions and energy sectors
- Managed corporate finance and recoveries division at PricewaterhouseCoopers (PwC)
- B.S. Economics UCAB; M.S. Finance IESA; MBA Babson College

## Joseph Hain - Director

Jhain@noblecapitalmarkets.com - 561.999.2265

- Prior experience holding senior positions at Robotti & Company, Wynston Hill Capital, SternAegis Ventures, WestPark Capital, and Tejas Securities
- Experience working with institutional, retail and HNW clients
- B.S. SUNY Albany with concentration in Biology, Chemistry, and Physics
- Holds various FINRA licenses

## **Brittnee Fatigate, Analyst**

bfatigate@noblecapitalmarkets.com - 561.999.2264

- Joined Noble Capital Markets in January 2017
- Has completed multiple M&A and capital raising assignments, accounting for nearly \$150 million+ of transaction value
- Held previous position as an accounting assistant at a privately held manufacturing company
- B.S. Finance, Florida Atlantic University

## **Adam Carey, Analyst**

acarey@noblecapitalmarkets.com - 561.998.5482

- Joined Noble Capital Markets in October 2018
- Previously worked as a private equity analyst at Northern Capital Partners
- B.S. Finance and Applied Economics, University of Minnesota, Twin Cities



# $R + (e^2 + p^2) = T$

## **SALES & TRADING**

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