

# North America Gold Mines

## Quarterly Summary to 30 September 2018



For the quarter ending 30 September 2018 reported gold production totalled 3.7 Moz, with USA the largest producer closely followed by Canada. Barrick Gold Corp's Nevada operations in the USA once again was the largest gold producer with 451,000 oz, followed by Newmont Mining Corp's Carlin mine (183,000 oz) in USA and Agnico Eagle and Yamana Gold's Canadian Malartic mine (183,726 oz) in Canada.

The average gold price (London PM Fix) for the quarter was US\$1,213/oz. The average reported All-in Sustaining Costs (AISC) was US\$1,099/oz and to be considered in the lowest cost quartile an AISC of less than or equal to US\$709/oz was required. The mine with the lowest reported AISC was Premier Gold Mines' 40% share of the South Arturo mine in the USA with an AISC of US\$498/oz, this was followed by Atlantic Gold Corp's and Moose River Resources' Moose River mine (US\$527/oz) in Canada and Newmont Mining Corp's Long Canyon mine (US\$584/oz) in the USA.

### Overall - Top 5 Mines by Gold Production

Rank	Operation	Country	Principal Owners	Au Produced (oz)
1	- Barrick Nevada	USA	Barrick Gold Corporation	541,000
2	▲1 Carlin	USA	Newmont Mining Corporation	237,000
3	▼1 Canadian Malartic	Canada	Agnico Eagle Mines Ltd 50%; Yamana Gold Inc. 50%	177,204
4	- Detour Lake	Canada	Detour Gold Corporation	151,402
5	- Herradura	Mexico	Fresnillo Plc	109,630

**Notes:** Barrick's Nevada operations is comprised of the Cortez, Goldstrike and 60% of the South Arturo mines.

### Overall - Top 5 Mines by All-in Sustaining Costs

Rank	Operation	Country	Principal Owners	Au Produced (US\$/oz)
1	▲2 South Arturo	USA	Premier Gold Mines Limited 40%	498
2	▲2 Moose River Consolidated	Canada	Atlantic Gold Corporation 63.5%; Moose River Resources Inc. 36.5%	527
3	▼1 Long Canyon	USA	Newmont Mining Corporation	584
4	▲8 New Afton	Canada	New Gold Inc.	588
5	▲11 Seabee	Canada	SSR Mining Inc.	596

**Notes:** South Arturo is 60% owned by Barrick Gold Corp, who reports it as part of their Nevada operations.

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### Canada

#### Top 5 Mines by Gold Production

Rank		Operation	Principal Owners	Au Produced (oz)
1	-	Canadian Malartic	Agnico Eagle Mines Limited 50%; Yamana Gold Inc. 50%	177,204
2	-	Detour Lake	Detour Gold Corporation	151,402
3	-	Brucejack	Pretium Resources Incorporated	92,641
4	▲1	LaRonde	Agnico Eagle Mines Limited	88,353
5	▼1	Eleonore	Goldcorp Incorporated	86,000

#### Top 5 Mines by All-in Sustaining Costs

Rank		Operation	Principal Owners	AISC (US\$/oz)
1	-	Moose River Consolidated	Atlantic Gold Corporation 63.5%; Moose River Resources Inc. 36.5%	527
2	▲4	New Afton	New Gold Inc.	588
3	▲4	Seabee	SSR Mining Inc.	596
4	▼2	Brucejack	Pretium Resources Incorporated	709
5	▼2	Canadian Malartic	Agnico Eagle Mines Limited 50%; Yamana Gold Inc.50%	717

### USA

#### Top 5 Mines by Gold Production

Rank		Operation	Principal Owners	Au Produced (oz)
1	-	Barrick Nevada	Barrick Gold Corporation	541,000
2	-	Carlin	Newmont Mining Corporation	237,000
3	▲1	Turquoise Ridge	Barrick Gold Corporation 75%; Newmont Mining Corporation 25%	105,000
4	▼1	Round Mountain	Kinross Gold Corporation	94,153
5	-	Twincreek	Newmont Mining Corporation	93,000

**Notes:** Barrick's Nevada operations is comprised of the Cortez, Goldstrike and 60% of the South Arturo mines.

#### Top 5 Mines by All-in Sustaining Costs

Rank		Operation	Principal Owners	AISC (US\$/oz)
1	▲1	South Arturo	Premier Gold Mines Limited 40%	498
2	▼1	Long Canyon	Newmont Mining Corporation	584
3	▲1	Barrick Nevada	Barrick Gold Corporation	623



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4	▲1	Turquoise Ridge	Barrick Gold Corporation 75%; Newmont Mining Corporation 25%	757
5	▲3	Twincreek	Newmont Mining Corporation	794

Notes: South Arturo is 60% owned by Barrick Gold Corp, who reports it as part of their Nevada operations.

## Mexico

### Top 5 Mines by Gold Production

Rank	Operation	Principal Owners	Au Produced (oz)	
1	-	Herradura	Fresnillo Plc	109,630
2	-	El Limon-Guajes	Torex Gold Resources Inc.	101,481
3	▲1	Pinos Altos	Agnico Eagle Mines Limited	54,429
4	▼1	Mulatos	Alamos Gold Inc.	43,300
5	-	Los Filos	LeaGold Mining Corporation	42,617

### Top 5 Mines by All-in Sustaining Costs

Rank	Operation	Principal Owners	AISC (US\$/oz)	
1	▲3	El Gallo Complex	McEwen Mining Inc.	696
2	▲3	Mulatos	Alamos Gold Inc.	846
3	▲4	El Limon-Guajes	Torex Gold Resources Inc.	967
4	▲5	Mercedes	Premier Gold Mines Limited	1,059
5	▲1	Los Filos	LeaGold Mining Corporation	1,060

## Data Tables

### North American Gold Mines that Report All-in Sustaining Costs

Rank	Operation	Country	Principal Owners	Au Produced (oz)	AISC (US\$/oz)
1	South Arturo	USA	Barrick Gold Corporation 60%; Premier Gold Mines Limited 40%	6,588	498
2	Moose River Consolidated	Canada	Atlantic Gold Corporation 63.5%; Moose River Resources Inc. 36.5%	27,570	527
3	Long Canyon	USA	Newmont Mining Corporation	44,000	584
4	New Afton	Canada	New Gold Inc.	19,916	588
5	Seabee	Canada	SSR Mining Inc.	27,831	596
6	Barrick Nevada	USA	Barrick Gold Corporation	541,000	623
7	El Gallo Complex	Mexico	McEwen Mining Inc.	10,448	696
8	Brucejack	Canada	Pretium Resources Incorporated	92,641	709



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Rank	Operation	Country	Principal Owners	Au Produced (oz)	AISC (US\$/oz)
9	Canadian Malartic	Canada	Agnico Eagle Mines Limited 50%; Yamana Gold Inc. 50%	177,204	717
10	Macassa	Canada	Kirkland Lake Gold Ltd.	55,582	722
11	Turquoise Ridge	USA	Barrick Gold Corporation 75%; Newmont Mining Corporation 25%	105,000	757
12	Twincreek	USA	Newmont Mining Corporation	93,000	794
13	Mulatos	Mexico	Alamos Gold Inc.	43,300	846
14	Eagle River Complex	Canada	Wesdome Gold Mines Limited	19,795	888
15	Casa Berardi	Canada	Hecla Mining Company	43,981	896
16	Eleonore	Canada	Goldcorp Incorporated	86,000	902
17	Mesquite	USA	Equinox Gold Corp.	36,492	927
18	Cripple Creek and Victor	USA	Newmont Mining Corporation	82,000	952
19	Marigold	USA	SSR Mining Inc.	58,459	965
20	El Limon-Guajes	Mexico	Torex Gold Resources Inc.	101,481	967
21	Musselwhite	Canada	Goldcorp Incorporated	45,000	983
22	Taylor	Canada	Kirkland Lake Gold Ltd.	13,333	990
23	Porcupine	Canada	Goldcorp Incorporated	59,000	996
24	Holt	Canada	Kirkland Lake Gold Ltd.	20,609	999
25	Young-Davidson	Canada	Alamos Gold Inc.	52,517	1,029
26	Carlin	USA	Newmont Mining Corporation	237,000	1,042
27	Westwood	Canada	IAMGOLD Corporation	30,000	1,047
28	Island	Canada	Alamos Gold Inc.	24,708	1,051
29	Mercedes	Mexico	Premier Gold Mines Limited	17,465	1,059
30	Los Filos	Mexico	LeaGold Mining Corporation	42,617	1,060
31	Florida Canyon	USA	Alio Gold Inc.	11,998	1,064
32	Haile	USA	OceanaGold Corporation	28,600	1,081
33	Soledad Mountain	USA	Golden Queen Mining Co. Ltd. 50%; Jefferies Financial Group Inc. 37.73%; Auvergne, LLC 12.27%	12,943	1,086
34	Red Lake	Canada	Goldcorp Incorporated	67,000	1,092
35	Pogo	USA	Northern Star Resources Limited	54,474	1,098
36	Hemlo	Canada	Barrick Gold Corporation	41,000	1,247
37	Timmins	Canada	Tahoe Resources Inc.	37,600	1,283
38	Black Fox	Canada	McEwen Mining Inc.	11,618	1,285

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Rank	Operation	Country	Principal Owners	Au Produced (oz)	AISC (US\$/oz)
39	Phoenix	USA	Newmont Mining Corporation	55,000	1,306
40	San Francisco	Mexico	Alio Gold Inc.	11,608	1,315
41	El Chanate	Mexico	Alamos Gold Inc.	9,700	1,332
42	El Aguila	Mexico	Gold Resource Corporation	6,411	1,338
43	Detour Lake	Canada	Detour Gold Corporation	151,402	1,377
44	Hope Bay	Canada	TMAC Resources Inc.	33,100	1,456
45	Beaufor	Canada	Monarques Gold Corporation	3,604	1,476
46	Rainy River	Canada	New Gold Inc.	55,538	1,541
47	Penasquito	Mexico	Goldcorp Incorporated	38,000	1,968
48	Golden Sunlight	USA	Barrick Gold Corporation	5,000	3,052
49	Cerro San Pedro	Mexico	New Gold Inc.	2,079	3,062

### North American Mines that do not Report All-in Sustaining Costs

Rank	Operation	Country	Principal Owners	Au Produced (oz)
1	Herradura	Mexico	Fresnillo Plc	109,630
2	Round Mountain	USA	Kinross Gold Corporation	94,153
3	LaRonde	Canada	Agnico Eagle Mines Limited	88,353
4	Bald Mountain	USA	Kinross Gold Corporation	72,560
5	Meadowbank	Canada	Agnico Eagle Mines Limited	68,259
6	Pinos Altos	Mexico	Agnico Eagle Mines Limited	54,429
7	Fort Knox	USA	Kinross Gold Corporation	51,984
8	Noche Buena	Mexico	Fresnillo Plc	42,460
9	Goldex	Canada	Agnico Eagle Mines Limited	31,255
10	La India	Mexico	Agnico Eagle Mines Limited	27,074
11	Kensington	USA	Coeur Mining, Inc.	26,809
12	San Dimas	Mexico	First Majestic Silver Corporation	21,910
13	Wharf	USA	Coeur Mining, Inc.	19,437
14	Cienega	Mexico	Fresnillo Plc	18,214
15	San Agustin	Mexico	Argonaut Gold Inc.	15,770
16	Santa Elena	Mexico	First Majestic Silver Corporation	10,848
17	Lapa	Canada	Agnico Eagle Mines Limited	10,464

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Rank	Operation	Country	Principal Owners	Au Produced (oz)
18	El Castillo	Mexico	Argonaut Gold Inc.	10,298
19	Pan	USA	Fiore Gold Ltd.	8,993
20	La Colorada	Mexico	Argonaut Gold Inc.	7,040
21	Moss	USA	Northern Vertex Mining Corp.	5,554
22	Point Rousse	Canada	Anaconda Mining Inc.	5,099
23	LaRonde Zone 5	Canada	Agnico Eagle Mines Limited	3,823
24	San Martin	Mexico	Starcore International Mines Ltd.	3,300
25	Mineral Ridge	USA	Scorpio Gold Corporation 70%; Waterton Global Resource Management, Inc. 30%	1,627

**Notes:** Fresnillo Plc, Kinross Gold Corp, Agnico Eagle Mines Ltd do not report AISC for individual mines, only overall quarterly AISC.

Barrick Nevada consists of Goldstrike, Cortez and 60% of South Arturo, Premier Gold Mines Ltd holds the remaining 40% interest in South Arturo, which has been reported separately.

Not all companies had fully reported their quarterly production and costs at the time this document was prepared.

**Data Sources:** Data was sourced from company quarterly reports, S&P Global Market Intelligence, cost curve created by Aurum Analytics.