

North America Gold Mines

Quarterly Summary to 31 December 2019



For the quarter ending 31 December 2019 reported gold production totalled 3.5 Moz, with Canada producing more than the USA. Barrick Gold's and Newmont's Carlin mine in the USA was the largest gold producer with 449,000 oz, followed by Alamos Gold's Island mine (386,000 oz) in Canada and Barrick Gold's and Newmont's Cortez mine (216,000 oz) in the USA.

The average gold price (London PM Fix) for the quarter was US\$1,482/oz. The average reported All-in Sustaining Costs (AISC) was US\$1,103/oz and to be considered in the lowest cost quartile an AISC of less than or equal to US\$800/oz was required. The mine with the lowest reported AISC was St Barbara's and Moose River Resources' Atlantic Gold mine in Canada with an AISC of US\$507/oz, this was followed by Alamos Gold's Island mine (US\$653/oz) in Canada and Barrick Gold's and Newmont's Long Canyon mine (US\$657/oz) in the USA.

Overall - Top 5 Mines by Gold Production

Rank	Operation	Country	Principal Owners	Au Produced (oz)
1	Carlin	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	449,000
2	Island	Canada	Alamos Gold Inc. 100%	386,000
3	Cortez	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	216,000
4	Turquoise Ridge	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	181,000
5	Canadian Malartic	Canada	Agnico Eagle Mines Ltd 50%; Yamana Gold Inc. 50%	170,084

Notes: The Carlin, Cortez and Turquoise Ridge mines are part of the Nevada Gold Mines joint venture between Barrick and Newmont.

Overall - Top 5 Mines by All-in Sustaining Costs

Rank	Operation	Country	Principal Owners	AISC (US\$/oz)
1	Atlantic Gold	Canada	St Barbara Ltd 63.5%; Moose River Resources Inc. 36.5%	507
2	Island	Canada	Alamos Gold Inc. 100%	653
3	Long Canyon	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	657
4	Macassa	Canada	Kirkland Lake Gold Ltd. 100%	721
5	Seabee	Canada	SSR Mining Inc. 100%	751

Notes: The Long Canyon mine is part of the Nevada Gold Mines joint venture between Barrick and Newmont.

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Canada

Top 5 Mines by Gold Production

Rank	Operation	Principal Owners	Au Produced (oz)
1	Island	Alamos Gold Inc. 100%	386,000
2	Canadian Malartic	Agnico Eagle Mines Ltd 50%; Yamana Gold Inc. 50%	170,084
3	Detour Lake	Kirkland Lake Gold Ltd. 100%	159,109
4	Eleonore	Newmont Corp 100%	98,000
5	LaRonde	Agnico Eagle Mines Ltd 100%	97,470

Top 5 Mines by All-in Sustaining Costs

Rank	Operation	Principal Owners	AISC (US\$/oz)
1	Atlantic Gold	St Barbara Ltd 63.5%; Moose River Resources Inc. 36.5%	507
2	Island	Alamos Gold Inc. 100%	653
3	Macassa	Kirkland Lake Gold Ltd. 100%	721
4	Seabee	SSR Mining Inc. 100%	751
5	Porcupine	Newmont Corp 100%	792

USA

Top 5 Mines by Gold Production

Rank	Operation	Principal Owners	Au Produced (oz)
1	Carlin	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	449,000
2	Cortez	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	216,000
3	Turquoise Ridge	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	181,000
4	Round Mountain	Kinross Gold Corp 100%	103,501
5	Cripple Creek and Victor	Newmont Corp 100%	82,000

Notes: The Carlin, Cortez and Turquoise Ridge mines are part of the Nevada Gold Mines joint venture between Barrick and Newmont.

Top 5 Mines by All-in Sustaining Costs

Rank	Operation	Principal Owners	AISC (US\$/oz)
1	Long Canyon	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	657
2	Turquoise Ridge	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	800
3	South Arturo	Premier Gold Mines Ltd 40%; Barrick Gold Corp 36.9%; Newmont Corp 23.1%	846



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4	Mesquite	Equinox Gold Corp. 100%	881
5	Carlin	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	965

Notes: The Long Canyon, Turquoise Ridge and Carlin mines are part of the Nevada Gold Mines joint venture between Barrick and Newmont. The South Arturo AISC represents the 40% owned by Premier Gold Mines.

Data Tables

North American Gold Mines that Report All-in Sustaining Costs

Rank	Operation	Country	Principal Owners	Au Produced (oz)	AISC (US\$/oz)
1	Atlantic Gold	Canada	St Barbara Ltd 63.5%; Moose River Resources Inc. 36.5%	29,067	507
2	Island	Canada	Alamos Gold Inc. 100%	386,000	653
3	Long Canyon	USA	Barrick Gold 61.5%; Newmont Corp 38.5%	55,000	657
4	Macassa	Canada	Kirkland Lake Gold Ltd. 100%	56,379	721
5	Seabee	Canada	SSR Mining Inc. 100%	22,069	751
6	Porcupine	Canada	Newmont Corp 100%	93,000	792
7	Turquoise Ridge	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	181,000	800
8	Canadian Malartic	Canada	Agnico Eagle Mines Ltd 50%; Yamana Gold Inc. 50%	170,084	828
9	South Arturo	USA	Premier Gold Mines Ltd 40%; Barrick Gold Corp 36.9%; Newmont Corp 23.1%	11,520	846
10	Brucejack	Canada	Pretium Resources Inc. 100%	96,237	866
11	Mesquite	USA	Equinox Gold Corp. 100%	40,321	881
12	Black Fox	Canada	McEwen Mining Inc. 100%	9,887	934
13	Carlin	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	449,000	965
14	Eagle River Complex	Canada	Wesdome Gold Mines Ltd 100%	21,332	988
15	Timmins	Canada	Pan American Silver Corp. 100%	47,300	998
16	Cortez	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	216,000	1,012
17	Haile	USA	OceanaGold Corp 100%	46,420	1,014
18	Fire Creek	USA	Hecla Mining Company 100%	20,727	1,024
19	Midas	USA	Hecla Mining Company 100%	20,727	1,024
20	Eleonore	Canada	Newmont Corp 100%	98,000	1,030
21	Phoenix	USA	Barrick Gold Corp 61.5%; Newmont Corp 38.5%	50,000	1,034
22	Cripple Creek and Victor	USA	Newmont Corp 100%	82,000	1,060
23	New Afton	Canada	New Gold Inc. 100%	15,734	1,076



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Rank	Operation	Country	Principal Owners	Au Produced (oz)	AISC (US\$/oz)
24	Young-Davidson	Canada	Alamos Gold Inc. 100%	48,000	1,083
25	Isabella Pearl	USA	Gold Resource Corp 100%	5,502	1,096
26	Marigold	USA	SSR Mining Inc. 100%	59,186	1,117
27	Westwood	Canada	IAMGOLD Corp 100%	29,000	1,117
28	Pan	USA	Fiore Gold Ltd. 100%	8,750	1,197
29	Pogo	USA	Northern Star Resources Ltd 100%	46,146	1,244
30	Lamaque	Canada	Eldorado Gold Corp 100%	29,085	1,273
31	Casa Berardi	Canada	Hecla Mining Company 100%	34,793	1,278
32	Point Rousse	Canada	Anaconda Mining Inc. 100%	3,441	1,282
33	Red Lake	Canada	Newmont Corp 100%	48,000	1,319
34	Holt Complex	Canada	Kirkland Lake Gold Ltd. 100%	31,469	1,321
35	Hemlo	Canada	Barrick Gold Corp 100%	54,000	1,380
36	Gold Bar	USA	McEwen Mining Inc. 100%	9,713	1,452
37	Elder-Tagami	Canada	Abcourt Mines Inc. 100%	3,722	1,468
38	Florida Canyon	USA	Alio Gold Inc. 100%	9,241	1,583
39	Sugar Zone	Canada	Harte Gold Corp 100%	8,017	2,036
40	Rainy River	Canada	New Gold Inc. 100%	51,122	2,429

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

Rank	Operation	Country	Principal Owners	Au Produced (oz)
1	Detour Lake	Canada	Detour Gold Corp 100%	159,109
2	Round Mountain	USA	Kinross Gold Corp 100%	103,501
3	LaRonde	Canada	Agnico Eagle Mines Ltd 100%	97,470
4	Meliadine	Canada	Agnico Eagle Mines Ltd 100%	81,607
5	Bald Mountain	USA	Kinross Gold Corp 100%	66,147
6	Meadowbank	Canada	Agnico Eagle Mines Ltd 100%	61,660
7	Fort Knox	USA	Kinross Gold Corp 100%	53,183
8	Goldex	Canada	Agnico Eagle Mines Ltd 100%	34,963
9	Kensington	USA	Coeur Mining, Inc. 100%	29,736
10	Wharf	USA	Coeur Mining, Inc. 100%	25,644
11	Hope Bay	Canada	TMAC Resources Inc. 100%	24,650
12	LaRonde Zone 5	Canada	Agnico Eagle Mines Ltd 100%	15,234



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Rank	Operation	Country	Principal Owners	Au Produced (oz)
13	Moss	USA	Northern Vertex Mining Corp. 100%	7,131

Notes: Kinross Gold Corp, Agnico Eagle Mines Ltd and Coeur Mining Inc do not report AISC for individual mines, only overall quarterly AISC. Detour Lake normally reports AISC but didn't as was in the process of being acquired by Kirkland Lake Gold Ltd. 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.