

Reserves and Resources – 12/31/18⁽¹⁾

Proven Reserves											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽²⁾	6	13.8	0.10	2.8	7.0	-	86	1	180	440	-
Lucky Friday ⁽²⁾	4,230	15.4	-	9.6	4.1	-	65,234	-	406,080	174,630	-
Casa Berardi ⁽³⁾	6,790	-	0.08	-	-	-	-	563	-	-	-
San Sebastian ⁽²⁾	22	3.9	0.08	-	-	-	85	2	-	-	-
Fire Creek ^(2,4)	24	1.1	1.21	-	-	-	27	29	-	-	-
Hollister ^(2,5)	2	7.0	0.73	-	-	-	17	2	-	-	-
Total.....	11,074						65,448	596	406,260	175,070	-
Probable Reserves											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽²⁾	9,270	11.5	0.09	2.8	7.6	-	106,972	840	262,760	706,040	-
Lucky Friday ⁽²⁾	1,387	11.4	-	7.6	3.7	-	15,815	-	104,720	50,640	-
Casa Berardi ⁽³⁾	16,954	-	0.08	-	-	-	-	1,343	-	-	-
San Sebastian ⁽²⁾	206	13.1	0.10	-	-	-	2,705	21	-	-	-
Fire Creek ^(2,4)	91	0.3	0.44	-	-	-	30	40	-	-	-
Hollister ^(2,5)	9	7.2	0.65	-	-	-	66	6	-	-	-
Total.....	27,917						125,588	2,250	367,480	756,680	-
Proven and Probable Reserves											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽²⁾	9,277	11.5	0.09	2.8	7.6	-	107,058	840	262,940	706,470	-
Lucky Friday ⁽²⁾	5,617	14.4	-	9.1	4.0	-	81,049	-	510,800	225,260	-
Casa Berardi ⁽³⁾	23,743	-	0.08	-	-	-	-	1,907	-	-	-
San Sebastian ⁽²⁾	228	12.3	0.10	-	-	-	2,790	23	-	-	-
Fire Creek ^(2,4)	115	0.5	0.60	-	-	-	57	69	-	-	-
Hollister ^(2,5)	11	7.2	0.67	-	-	-	82	8	-	-	-
Total.....	38,991						191,036	2,846	773,740	931,730	-
<p>⁽¹⁾ The term "reserve" means that part of a mineral deposit that can be economically and legally extracted or produced at the time of the reserve determination. The term "economically," as used in the definition of reserve, means that profitable extraction or production has been established or analytically demonstrated to be viable and justifiable under reasonable investment and market assumptions. The term "legally," as used in the definition of reserve, does not imply that all permits needed for mining and processing have been obtained or that other legal issues have been completely resolved. However, for a reserve to exist, Hecla must have a justifiable expectation, based on applicable laws and regulations, that issuance of permits or resolution of legal issues necessary for mining and processing at a particular deposit will be accomplished in the ordinary course and in a timeframe consistent with Hecla's current mine plans.</p> <p>⁽²⁾ Mineral reserves are based on \$1200 gold, \$14.50 silver, \$0.90 lead, \$1.15 zinc, unless otherwise stated.</p> <p>⁽³⁾ Mineral reserves are based on \$1200 gold and a US\$/CAN\$ exchange rate of 1:1.33 Reserve diluted to an average of 34.7% to minimum width of 9.8 feet (3 m) Reserves at Casa Berardi were determined by Jonathan Archambault-Giroux, P. Geo., Que., Real Parent, P. Geo. Que., and Alain Quenneville, P. Eng., Que. unless otherwise stated. Open pit mineral reserves of the Principal Mine were estimated in September 2018 by Hecla Quebec and Mine Development Associates based on \$1225 gold and a US\$/CAN\$ exchange rate of 1:3. <i>Hecla Mining Company, Principal Deposit Open Pit Mining Study - 2018</i> <i>September 1, 2018, by Mine Development Associates, Thomas L. Dyer, P.E.</i> Open pit mineral reserves of the 160 and 134 Zones were estimated in January 2018 by Hecla Quebec and Mine Development Associates based on \$1225 gold and a US\$/CAN\$ exchange rate of 1.3. <i>Hecla Mining, Casa Berardi 160 and 134 Zones, Open Pit Mining Study - 2017</i> <i>January 12, 2018, by Mine Development Associates, Thomas L. Dyer, P.E.</i> Open pit mineral reserves of the West Mine Crown Pillar were estimated in January 2019 by Hecla Quebec and Mine Development Associates based on \$1225 gold and a US\$/CAN\$ exchange rate of 1.3. <i>Hecla Mining Company, West Mine Crown Pillar Deposit, Open Pit Mining Study - 2018</i> <i>January 10, 2019, by Mine Development Associates, Thomas L. Dyer, P.E.</i> Open pit mineral reserves of the East Mine Crown Pillar Expansion were estimated in August 2018 by Hecla Quebec and Mine Development Associates based on \$1225 gold and a US\$/CAN\$ exchange rate of 1.3. <i>Hecla Mining Company, East Mine Crown Pillar Expansion, Open Pit Mining Study - 2016</i> <i>August 22, 2018, by Mine Development Associates, Thomas L. Dyer, P.E.</i></p> <p>⁽⁴⁾ Recoveries at Fire Creek for gold and silver are 94% and 92%. Cutoff grade of 0.339 Au Equivalent oz/ton and incremental cutoff grade of 0.11 Au Equivalent oz/ton. Unplanned dilution of 10% to 17% included depending on mining method.</p> <p>⁽⁵⁾ Recoveries at Hollister for gold and silver are 87% and 80%. Cutoff grade of 0.396 Au Equivalent oz/ton and incremental cutoff grade of 0.07 Au Equivalent oz/ton. Unplanned dilution of 10% to 17% and 5% mining loss included.</p>											

Measured and Indicated Resources – 12/31/18

Measured Resources											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽⁶⁾	339	9.5	0.11	2.6	9.4	-	3,233	36	8,800	31,700	-
Lucky Friday ^(6,7)	7,587	7.6	-	4.9	2.7	-	57,314	-	370,240	204,490	-
Casa Berardi ⁽⁸⁾	1,952	-	0.15	-	-	-	-	299	-	-	-
San Sebastian ^(6,9)	-	-	-	-	-	-	-	-	-	-	-
Fire Creek ^(6,10)	64	0.7	0.92	-	-	-	47	58	-	-	-
Hollister ^(6,11)	104	4.0	0.92	-	-	-	420	96	-	-	-
Midas ^(6,12)	183	6.7	0.45	-	-	-	1,235	82	-	-	-
Heva ⁽¹⁴⁾	5,480	-	0.06	-	-	-	-	304	-	-	-
Hosco ⁽¹⁴⁾	33,070	-	0.04	-	-	-	-	1,296	-	-	-
Rio Grande Silver ⁽¹⁵⁾	-	-	-	-	-	-	-	-	-	-	-
Star ⁽¹⁶⁾	-	-	-	-	-	-	-	-	-	-	-
Total.....	48,778						62,249	2,172	379,040	236,190	-

Indicated Resources											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽⁶⁾	7,128	13.2	0.10	3.1	8.1	-	94,197	690	218,950	577,650	-
Lucky Friday ^(6,7)	2,498	8.0	-	5.2	2.5	-	20,049	-	128,830	61,480	-
Casa Berardi ⁽⁸⁾	10,797	-	0.08	-	-	-	-	906	-	-	-
San Sebastian ^(6,9)	2,243	6.5	0.05	2.5	3.5	1.6	14,690	115	30,410	42,710	19,780
Fire Creek ^(6,10)	307	0.5	0.54	-	-	-	158	164	-	-	-
Fire Creek - Open Pit ⁽¹³⁾	42,877	0.1	0.03	-	-	-	2,350	1,093	-	-	-
Hollister ^(6,11)	135	2.6	0.64	-	-	-	350	86	-	-	-
Midas ^(6,12)	722	4.5	0.37	-	-	-	3,228	267	-	-	-
Heva ⁽¹⁴⁾	5,570	-	0.07	-	-	-	-	369	-	-	-
Hosco ⁽¹⁴⁾	31,620	-	0.04	-	-	-	-	1,151	-	-	-
Rio Grande Silver ⁽¹⁵⁾	516	14.8	-	2.1	1.1	-	7,620	-	10,760	5,820	-
Star ⁽¹⁶⁾	1,126	2.9	-	6.2	7.4	-	3,301	-	69,900	83,410	-
Total.....	105,538						145,944	4,841	458,850	771,070	19,780

Measured & Indicated Resources											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽⁶⁾	7,467	13.0	0.10	3.1	8.2	-	97,430	726	227,740	609,350	-
Lucky Friday ^(6,7)	10,084	7.7	-	4.9	2.6	-	77,363	--	499,070	265,970	-
Casa Berardi ⁽⁸⁾	12,749	-	0.09	-	-	-	-	1,205	-	-	-
San Sebastian ^(6,9)	2,243	6.5	0.05	2.5	3.5	1.6	14,690	115	30,410	42,710	19,780
Fire Creek ^(6,10)	371	0.6	0.60	-	-	-	205	222	-	-	-
Fire Creek - Open Pit ⁽¹³⁾	42,877	0.1	0.03	-	-	-	2,350	1,093	-	-	-
Hollister ^(6,11)	239	3.2	0.76	-	-	-	770	182	-	-	-
Midas ^(6,12)	905	4.9	0.39	-	-	-	4,463	349	-	-	-
Heva ⁽¹⁴⁾	11,050	-	0.06	-	-	-	-	672	-	-	-
Hosco ⁽¹⁴⁾	64,690	-	0.04	-	-	-	-	2,447	-	-	-
Rio Grande Silver ⁽¹⁵⁾	516	14.8	-	2.1	1.1	-	7,620	-	10,760	5,820	-
Star ⁽¹⁶⁾	1,126	2.9	-	6.2	7.4	-	3,301	-	69,900	83,410	-
Total.....	154,316						208,193	7,012	837,880	1,007,260	19,780

Inferred Resources											
Asset	Tons (000)	Silver (oz/ton)	Gold (oz/ton)	Lead %	Zinc %	Copper %	Silver (000 oz)	Gold (000 oz)	Lead (Tons)	Zinc (Tons)	Copper (Tons)
Greens Creek ⁽⁶⁾	2,470	14.6	0.09	3.0	7.3	-	35,982	219	74,410	181,400	-
Lucky Friday ^(6,7)	2,861	8.7	-	6.3	2.6	-	24,809	-	181,180	74,430	-
Casa Berardi ⁽⁸⁾	6,222	-	0.10	-	-	-	-	652	-	-	-
San Sebastian ^(6,17)	3,487	6.6	0.04	1.7	2.5	1.3	22,948	143	12,110	17,440	8,890
Fire Creek ^(6,10)	565	0.5	0.53	-	-	-	288	299	-	-	-
Fire Creek - Open Pit ⁽¹³⁾	31,707	0.1	0.03	-	-	-	2,882	1,085	-	-	-
Hollister ^(6,11,18)	550	3.1	0.40	-	-	-	1,716	223	-	-	-
Midas ^(6,12)	573	3.0	0.34	-	-	-	1,723	198	-	-	-
Heva ⁽¹⁴⁾	4,210	-	0.08	-	-	-	-	350	-	-	-
Hosco ⁽¹⁴⁾	7,650	-	0.04	-	-	-	-	314	-	-	-
Rio Grande Silver ⁽¹⁹⁾	3,078	10.7	0.01	1.3	1.1	-	33,097	36	40,990	34,980	-
Star ⁽¹⁶⁾	3,157	2.9	-	5.6	5.5	-	9,432	-	178,670	174,450	-
Monte Cristo ⁽²⁰⁾	913	0.3	0.14	-	-	-	271	131	-	-	-
Rock Creek ⁽²¹⁾	100,086	1.5	-	-	-	0.7	148,736	-	-	-	658,680
Montanore ⁽²²⁾	112,185	1.6	-	-	-	0.7	183,346	-	-	-	759,420
Total.....	279,714						465,229	3,648	487,360	482,700	1,426,990

Note: All estimates are in-situ except for the proven reserves at Greens Creek and San Sebastian which are in surface stockpiles. Resources are exclusive of reserves.

⁽⁶⁾ Mineral resources are based on \$1350 gold, \$21 silver, \$1.10 lead, \$1.20 zinc and \$3.00 copper, unless otherwise stated.

⁽⁷⁾ Measured and indicated resources from Gold Hunter and Lucky Friday vein systems are diluted and factored for expected mining recovery.

⁽⁸⁾ Measured, indicated and inferred resources are based on \$1,350 gold and a US\$/CAN\$ exchange rate of 1:1.33. Underground resources are reported at a minimum mining width of 6.6 to 9.8 feet (2 m to 3 m)

Resources at Casa Berardi were determined by Jonathan Archambault-Giroux, P. Geo., Que., Real Parent, P. Geo. Que., and Alain Quenneville, P. Eng., Que. unless otherwise stated.

⁽⁹⁾ Indicated resources reported at a minimum mining width of 5.9 feet (1.8 m) for Hugh Zone, Middle Vein, North Vein, and East Francine Vein and 4.9 feet (1.5 m) for Andrea Vein

San Sebastian lead, zinc and copper grades are for 1,224,900 tons of indicated resource within the Middle Vein and the Hugh Zone of the Francine Vein.

⁽¹⁰⁾ Recoveries at Fire Creek for gold and silver are 94% and 92%. Au equivalent cutoff grade of 0.297 oz/ton. The minimum mining width is defined as four feet or the vein true thickness plus two feet, whichever is greater.

⁽¹¹⁾ Recoveries at Hollister for gold and silver are 87% and 80%. Au equivalent cutoff grade of 0.352 oz/ton. The minimum mining width is defined as four feet or the vein true thickness plus two feet, whichever is greater.

⁽¹²⁾ Recoveries at Midas for gold and silver are 93% and 88%. Au equivalent cutoff grade of 0.217 oz/ton. The minimum mining width is defined as four feet or the vein true thickness plus two feet, whichever is greater.

⁽¹³⁾ Indicated and inferred open-pit resources for Fire Creek were calculated November 30, 2017 using recoveries for gold and silver of 65% and 30% for oxide material and 60% and 25% for mixed oxide-sulfide material.

Open pit resources are calculated at \$1400 gold and \$19.83 silver and cut-off grade of 0.01 Au Equivalent oz/ton and is inclusive of 10% mining dilution and 5% ore loss. Open pit mineral resources exclusive of underground mineral resources.

NI43-101 Technical Report for the Fire Creek Project, Lander County, Nevada; Effective Date March 31, 2018; prepared by Practical Mining LLC, Mark Odell, P.E. for Hecla Mining Company, June 28, 2018

⁽¹⁴⁾ Measured, indicated and inferred resources were estimated in by Goldminds Geoservices Inc. with effective date 12-July-2013, and are based on \$1,300 gold and a US\$/CAN\$ exchange rate of 1:1.

The resources are in-situ without dilution and material loss.

*NI43-101 Technical Report, Mineral Resource Update, Hecla-Hosco Gold Projects, Rouyn-Noranda, Quebec, Hecla Quebec, December 2013
Prepared by: Claude Duplessis, Eng. Project Manager - GoldMinds Geoservices Inc.; Maxime Dupéré, P. Geo - SGS Canada Inc. (Geostat)*

⁽¹⁵⁾ Indicated resources reported at a minimum mining width of 6.0 feet for Bulldog; resources based on \$26.5 Ag, \$0.85 Pb, and \$0.85 Zn

⁽¹⁶⁾ Indicated and Inferred resources reported using \$21 silver, \$0.95 lead, \$1.10 zinc minimum mining width of 4.3 feet.

⁽¹⁷⁾ Inferred resources reported at a minimum mining width of 5.9 feet (1.8 m) for Hugh Zone, Middle Vein, North Vein, and East Francine Vein and 4.9 feet (1.5 m) for Andrea Vein

San Sebastian lead, zinc and copper grades are for 702,600 tons of inferred resource within the Middle Vein and the Hugh Zone of the Francine Vein.

⁽¹⁸⁾ Inferred resources for the Hatter Project at the Hollister Mine calculated using recoveries for gold and silver of 82.7% and 71.8% and an Au equivalent cutoff grade of 0.27 oz/ton

⁽¹⁹⁾ Inferred resources reported at a minimum mining width of 6.0 feet for Bulldog, 5.0 feet for Equity & North Amethyst veins; resources based on \$1400 Au, \$26.5 Ag, \$0.85 Pb, and \$0.85 Zn.

⁽²⁰⁾ Inferred resource reported at a minimum mining width of 5.0 feet; resources based on \$1400 Au, \$26.5 Ag.

⁽²¹⁾ Inferred resource at Rock Creek reported at a minimum thickness of 15 feet and adjusted given mining restrictions as defined by U.S. Forest Service, Kootenai National Forest in the June 2003 'Record of Decision, Rock Creek Project'.

⁽²²⁾ Inferred resource at Montanore reported at a minimum thickness of 15 feet and adjusted given mining restrictions defined by U.S. Forest Service, Kootenai National Forest, Montana DEQ in December 2015 'Joint Final EIS, Montanore Project'

and the February 2016 U.S Forest Service - Kootenai National Forest 'Record of Decision, Montanore Project'.