Homestake Mining Company Opening A New Chapter



mining progressed away from the central core of the ore body.

Development of an additional ore zone and construction of the related infrastructure was completed in the third quarter of 1995. This new zone provides a third production area and should allow for additional tonnage to the mill. In an effort to minimize mining costs, stoping of narrow-width ore by longitudinal longhole retreat continued during the year.

Tailings impoundment areas were consolidated with the Williams mine. This will result in lower reagent consumption and reduce fresh water requirements by increasing the use of recycled water. In 1996, it is anticipated that ore grades and throughput will improve, resulting in increased production.

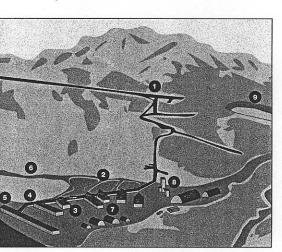
Snip Mine – British Columbia
Gold production in 1995 was similar to
1994. Total cash costs increased slightly
to \$175 per ounce. The use of conventional mining methods to extract ore will
increase in 1996. As a result, it is
expected that a 5% decline in tonnage
mined will be accompanied by a modest
increase in total cash costs.



David Bell Mine, Ontario

Profile: Eskay Creek

In 1932, a syndicate directed by Tom Mackay explored and identified more than 30 ore zones in a region near the Iskut River. Today, more than sixty years later, the Eskay Creek project covers almost 3,500 acres in this remote area of northwestern British Columbia. The mine is one of the



highest-grade gold and silver deposits discovered in North America in recent history. Base metal sulphides associated with precious metals mineralization at Eskay Creek include sphalerite, tetrahedrite, pyrite and galena. Completed on time and under budget in 1994, the Eskay Creek mine is one of Homestake's leading gold producers.

- 1. Underground workings
- 2. Settling ponds
- 3. Assay lab
- 4. Drv
- 5. Bunkhouse
- 6. Road to upper portal
- 7. Ore crushing & blending
- 8. Backfill plant
- 9. Quarry

Statistical Summary

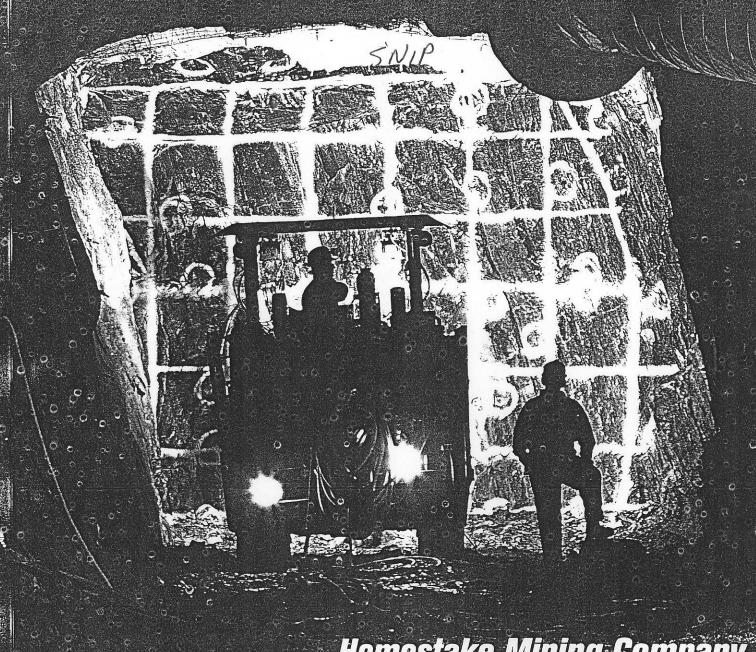
	Gold Production ¹					Production Costs Per Ounce			
	Interest'	Tons Milled (millions)	Grade (oz/ton)	Recovery (%)	Ounces Produced	Operating Cash(c)	Other Cash(d)	Noncash	
1995 United States									
Homestake	100	2.5	0.171	96	402,867	\$292	\$11	\$ 3	
McLaughlin	100	2.3	0.171	88	241,772	234	8	پ م 11	
Round Mountain ²	25	7.8	0.018	71	86,109	231	23	7	
Santa Fe	100	-	-	_	16,667	118	21	,	
oint Ventures	_	_	_	_	35,875	254	24	5	
Ruby Hill	100	_	_	***	_	_			
Canada									
	100	0.1	2 257	05	221 200	107	2	4	
Eskay Creek ^{3.4} Williams	100 50	0.1 1.3	3.357 0.163	95 95	331,300 202,561	182 214	3 8	3	
wimams David Bell'	50 50	0.2	0.163	94	86,523	192	11	2	
Nickel Plate	100	1.5	0.077	81	91,365	379			
Nickei Plate Snip ³	40	0.1	0.751	91	51,310	175		á	
George Lake	74	0.1	0.751	<i>7</i> 1	J1,J10 -	1/)		-	
Australia	, .								
Kalgoorlie	50	5.4	0.068	88	311,416	296		4	
Chile	70	<i>J</i> . 1	0.000	00	311,110	270			
	100	0.7	0.0/7		10.56/	/03			
El Hueso ⁶ Manto Agua de la Falda	100 51	0.6	0.047	68	19,564 -	403	_	2	
Cotal production					1,877,329	\$250	\$ 7	\$ 5	
Minority interests					(245,652)	Ψ290	Ψ /	Ψ.	
Homestake's share of gold					1,631,677				
994 United States	4								
Homestake	100	2.6	0.160	05	202 02 /	\$284	\$ 7	¢ 7	
AcLaughlin	100	2.2	0.126	95 87	393,934	ъ204 241	\$ /	\$ 3	
NCLaughiin Round Mountain ²	25	6.5	0.126	87 79	250,453 105,877	153	o 29	7	
Santa Fe	100	0.5	0.021	/ <i>/</i> -	22,361	163	6	17	
oint Ventures	-	_	_		40,145	234	23	1 / 2 	
Ruby Hill	100	_	_	_	40,14)	234	25		
Canada									
	100								
skay Creek ^{3,4} Villiams	100 50	1.3	0.184	- 95	222,660	- 191	12		
David Bell'	50 50	0.3	0.184	93	103,854	156	11	4	
Nickel Plate	100	1.4	0.379	81	82,117	349	11	2	
onip ³	40	0.1	0.743	92	51,592	173	-	-	
George Lake	74	- -	0./43	,)1,)) <u>/</u>	1/5		-	
ustralia	, -								
Kalgoorlie	50	5.4	0.078	88	352,081	257			
Chile					0,000	-27			
El Hueso ⁶	100	2.7	0.035	80	56,447	396			
Tines sold ⁷	-	2./	0.037	_	14,868	268	*****	2	
otal production				**********************	1,696,389	\$245	\$ 7	\$ 4	
Minority interests					(89,826)	+	* /		
Homestake's share of gold					1,606,563				
					1,000,505	West of Paris Paris Control of the C			
Eskay Creek – silver									
995 994									
1774									

		Reserves (a) 8		M	ineralized Materia	
	Tons (millions)	Grade C (oz/ton)	ontained Ounces (thousands)	Tons (millions)	Grade Co (oz/ton)	ontained Ounces (thousands)
						
	26.0	0.197	5,119	24.8	0.168	4,166
	19.3	0.068	1,315	_	_	-
	127.2	0.020	2,500	19.6	0.020	390
	- 5.9	0.043		_	_	_
100	7.6	0.099	755	9.2	0.067	614
	0.6	1.875	1,067	0.1	0.879	101
	18.4	0.150	2,749	4.3	0.121	518
1	3.0	0.300	911		_	-
	0.9	0.079	74		_	-
	0.1	0.776	60		0.685	20
	-	_	_	2.6	0.322	824
	92.1	0.072	6,591	82.1	0.064	5,202
				<u>-</u>		
	0.5	0.181	95		-	_
_	301.6		21,490	142.7		11,835
		•				
)	20.4 22.1	0.203 0.075	4,138 1,665	27.1	0.157	4,261
	87.2	0.022	1,950	26.8	0.024	654
1	_	_	_	_	_	-
'	5.9	0.041	243	_	-	-
-	-	_	_	13.6	0.108	1,463
- 1	0.6	1.910	1,151			
2	17.0	0.166	2,835	5.2	0.130	669
1	3.0	0.318	948	_	-	-
í	2.9	0.077	223	_	_	-
)	0.1	0.797	89	_	0.729	20
-	_	-	-	2.6	0.322	824
1	64.7	0.073	4,695	43.5	0.076	3,29
3	0.1	0.039	5			-
9 8		_	_	_	_	-
1	224.0		17,942	118.8		11,186
	0.6	83.4	47,439	0.1	55.99	6,431

Definitions:

- (a) A proven and probable reserve is that part of a mineral deposit which could be extracted or produced economically and legally at the time of the reserve determination.
- (b)Mineralized material is an estimate of tonnage and grade of a mineral deposit with potential economic merit. Estimates of tonnage and grade are made on the basis of continuity, size and shape of mineralization. The extent of sampling required to quantify the estimate will vary with the level of geological understanding. Tonnage and grade estimates include provision for mining dilution.
- (c)Operating cash costs are costs directly related to the physical activities of producing gold; includes mining, milling, third-party smelting and inmine exploration expenditures that are related to production.
- (d)Other cash costs are costs that are not directly related to, but may result from, gold production; includes production taxes and royalties.
- (e)Noncash costs are costs that typically are accounted for ratably over the life of an operation; includes depreciation, depletion, final reclamation and the amortization of the economic cost of property acquisitions, but excludes amortization of SFAS 109 deferred tax purchase adjustments relating to property acquisitions.
- ¹ Homestake's proportionate interest including minority interests.
- Recovery relates to the reusable pad at the Round Mountain mine.
- ³ Includes ounces of gold contained in ore or concentrates sold to smelters.
- ⁴ Gold and silver are accounted for as coproducts at Eskay Creek. Silver production is converted into gold equivalent, using the ratio of the gold market price to the silver market price. The ratio was 73.8 ounces of silver equals one ounce of gold production for the year ended December 31, 1995. Reserves and mineralized material relate to gold only.
- ⁵ Ounces produced includes 7,140 ounces and 7,745 ounces of gold production from the Quarter Claim in 1995 and 1994, respectively. Reserves include a 25% net profits interest in Quarter Claim.
- ⁶ Recovery and grade relate to the higher-grade ore at the El Hueso mine.
- ⁷ Includes production from the Torres mining complex and Dee mine in 1994.
- 8 Homestake's proportionate interest, excluding minority interests, except that Kalgoorlie reserves and mineralized material at December 31, 1995 reflect completion of the acquisition of the HGAL minority interests.

Effective January 1, 1996 Homestake adopted the "Gold Institute Production Cost Standard" for reporting of per ounce production costs. All per ounce production costs in this annual report are presented on this basis.



Homestake Mining Company 1997 Progress Report

Statistical Summary

	jt .			Go	ld Production	
	# US	_ Interest %	Tons Processed (millions)	Grade (oz/ton)	Recovery (%)	Ounces Produced
1997						
	United States					
	Homestake	100	2.6	0.163	94	397,299
	Round Mountain ²	25	12.1	0.015	75	119,959
	Ruby Hill ³	100	0.3		_	16,629
	McLaughlin	100	2.7	0.075	58	113,491
	Pinson ^{4.5}	50	0.6	0.046	86	25,829
	Marigold ⁵	33	0.9	0.028	95	24,547
	Canada					¥.
	Eskay Creek ^{6,7}	100	0.1	3.661	95	417,303
	Williams	50	1.3	0.160	95	201,098
	David Bell ⁸	50	0.3	0.397	96	101,313
	Snip ^{6,9}	100	0.2	0.780	92	115,644
	Australia					
	Kalgoorlie	50	6.6	0.072	89	425,914
	Plutonic	100	3.4	0.094	88	274,608
	Darlot/Centenary	100	0.6	0.114	95	65,153
	Lawlers	100	0.5	0.178	96	87,481
	Mt Morgans	80	1.0	0.093	88	73,588
	Peak Hill	67	0.7	0.069	97	33,104
	Other Projects	-	-	_	-	-
	Chile					
	Agua de la Falda ¹⁰	100	0.3	0.172	65	31,417
	Total Production ¹¹					2,544,325
	Minority Interests ¹²					(278,670)
	Homestake's Share of Gold Production					2,265,655
	51 0 1 0"					

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Eskay Creek - Silver

- 1. Homestake reports per ounce production costs in accordance with the "Gold Institute Production Cost Standard."
- 2. Recovery relates to the reusable pad at the Round Mountain mine.
- 3. The Ruby Hill mine commenced commercial production effective January 1, 1998. Costs associated with gold produced during 1997 have been excluded from cost per ounce calculations.
- 4. Homestake increased its interest in the Pinson mine to 50% in December 1996.
- 5. Recovery relates to ore milled at the Pinson and Marigold mines.
- The Eskay Creek and (effective April 1996) Snip mines are owned 100% by Prime Resources Group Inc. ("Prime"). Homestake owns 50.6% of Prime. The ownership interests and
- production amounts shown are Homestake's consolidated interests without reduction for minority interests. Production amounts include ounces contained in ore or concentrates sold to smelters. Reserves and mineralized material are Homestake's interest after reduction for the 49.4% minority interests in Prime.
- 7. Gold and silver are accounted for as co-products at Eskay Creek. Silver production is converted into gold equivalent using the ratio of the gold market price to the silver market price. For the years ended December 31, 1997 and 1996, the ratio was 68.2 and 74.9 ounces of silver equals one ounce of gold production, respectively. Reserves and mineralized material relate to gold only. Silver reserves and mineralized material are shown at the bottom of the chart.

⊙ Operating Cash ^c	Other Cash ^d	Noncash ^e	Tons (millions)	Grade (oz/ton)	Contained Ounces (thousands)	Tons (millions)	Grade (oz/ton)	Contained Ounces (thousands)
\$306	\$ 4	\$ 47	13.6	0.205	2,786	18.5	0.170	3,133
210	16	49	100.3	0.018	1,759	35.6	0.016	ว ี65
_	_	-	7.0	0.098	687	7.2	0.073	526
247	7	120	13.9	0.061	845	_	_	_
334	10	54	0.9	0.073	65	_		_
239	28	34	5.1	0.033	168	-	_	-
٠								
155	2	35	0.8	1.693	1,281	0.2	0.587	110
222	7	40	16.5	0.150	2,465	4.1	0.119	490
184	10	45	2.6	0.312	804	_	-	-
213	-	115	0.1	0.678	80	-	0.751	10
		•						
259	_	. 55	89.7	0.066	5,924	102.6	0.071	7,242
234	-	70	5.2	0.108	567	26.7	0.222	5,927
320	-	29	9.4	0.163	1,556	4.0-	0.123	492
260	_	25	. 1.9	0.134	252	3.8	0.117	445
374	. 6	85	3.8	0.023	91	<u>-</u>	_	
269	-	151	0.5	0.044	24	-	_	_
-	-	-	-	-	_	6.6	0.105	696
		•						
213	·	82	0.7	0.167	110	<u> 7.7</u>	0.160	1,224
<u>\$242</u>	<u>\$ 4</u>	<u>\$ 57</u>	272.0		19,464	217.0		20,860
			0.8	78.3	59,208	0.2	11.97	2,247

Ounces produced include 11,331 and 11,362 ounces of gold production from the Quarter Claim in 1997 and 1996, respectively.
 Reserves include a 25% net profits interests in Quarter Claim.

^{9.} Prime purchased the remaining 60% interest in the Snip mine in April 1996.

^{10.} The Agua de la Falda mine, which commenced commercial production in April 1997, is owned 100% by Agua de la Falda, S.A. ("Agua"). Homestake owns 51% of Agua. The ownership interest and production amounts shown are Homestake's consolidated interest without reduction for minority interests. Reserves and mineralized material are Homestake's interest after reduction for the 49% minority interests in Agua.

^{11.} Includes 14,441 ounces and 17,313 ounces of gold produced at the Bellevue project in Western Australia during 1997 and 1996, respectively, and 507 ounces and 8,274 ounces of gold produced at the El Hueso mine in Chile during 1997 and 1996, respectively.

Includes minority interests' 49.4% share of Prime's production in 1997 and 1996 and 49% share of Agua's production in 1997.

^{13.} Homestake completed the sale of its interests in the George Lake and Back River joint ventures in February 1997.

a,b,c,d and e see "Definitions" on pages 26 and 27.

-> SNIP

years. All concentrates were shipped to the Trail Operations except for 23,000 tons (20,900) of lead concentrate held in inventory at year-end.

Despite much improved productivities, Kimberley Operations were unprofitable in 1991 because of low prices for lead, silver and particularly zinc.

Pine Point Mines

At the Pine Point operation at Pine Point, N.W.T., all buildings have been removed, although some reclamation work remains to be done. The final shipment of lead concentrate was made to Japan in October 1991.

Polaris

The Polaris zinc-lead mine, concentrator and related exploration properties are owned 77.5 percent by Cominco and 22.5 percent by Pine Point Mines Limited. Cominco is the operator of the joint venture. The underground mining operation, which is located on Little Cornwallis Island, N.W.T., is celebrating its tenth full year of operations in 1992.

Polaris set a new record for tonnage milled in 1991. Ten shipments of lead and zinc concentrate were made to Europe between June 25, the earliest ever, and October 27, for a total of 277,800 tons (252,000).

Although Polaris continues to produce a large proportion of ore from pillar mining, operating costs have been contained and the mine has been profitable despite low metal prices.

Capital expenditures for 1991 included \$2.8 million for replacement of equipment and completion of the Garrow Lake discharge control structure. Exploration diamond drilling was carried out on nearby Truro Island. Results were sufficiently encouraging to justify further work in 1992.

Highland Valley Copper

Highland Valley Copper is located near Logan Lake, B.C. The Highland Valley partnership comprises Cominco (50 percent), Rio Algom Limited (33.6 percent), Teck Corporation (13.9 percent, including 2.5 percent from Highmont) and Highmont Mining Company (2.5 percent, excluding Teck's 2.5 percent).

During the year, the mill processed 51,027,300 tons (46,292,000), achieving a record average daily throughput of 139,800 tons (126,800). Total production of payable copper contained in concentrate was a record 378.4 million pounds of which Cominco's share was 189.2 million pounds.

A detailed assessment of the potential mineralization within the area of interest surrounding the existing Highland Valley Copper operations was undertaken in 1991 with a view to identifying appropriate targets for regional exploration. Several promising targets are scheduled for investigation in 1992.

After protracted negotiations and a five-week work slowdown, a two-year collective agreement was reached with the United Steelworkers of America. The agreement, which provides for wage and benefit improvements, will remain in effect until September 30, 1993.

Cominco's share of Highland Valley Copper's earnings was \$50 million compared with \$75.0 million in 1990. The reduction was due to lower copper prices and a stronger Canadian dollar. Efforts continue to reduce operating costs.

POLARIS

		1991	1990
Ore milled!	tons	1,178,700	1,121,300
	(tonnes)	(1,069,300)	(1.017,200)
Zinc			
Average ore	grade	12.5%	14.4%
Concentrate	tons	180,400	194,100
	(tonnes)	(163,700)	(176,100)
Average conc	entrate		
grade		61.3%	62.7%
Lead			
Average ore	grade	3.2%	4.0%
Concentrate	tons	34,600	41,200
	(tonnes)	(31,400)	(37,400)
Average conc	entrate		
grade		77.7%	78.2%
No. of employ	vees at		
year-end		246	257
. •			

¹ Cominco owns 77.5 percent of the mine and Pine Point Mines Limited owns 22.5 percent. Ore milled is reported as 100 percent. Production data represent Cominco's 77.5 percent share.

HIGHLAND VALLEY COPPER

		1991	1990
Ore milled ¹	tons	51,027,300	50,995,700
	(tonnes)	(46,292,000)	(46,263,000)
Copper			
Average ore gi	rade	0.44%	0.43%
Contained in c	oncentrate		
	tons	94,600	90,200
	(tonnes)	(85,800)	(81.800)
Molybdenu	m		
Average ore gi	rade	0.008%	0.008%
Contained in			
concentrate	tons	1,000	1,100
	(tonnes)	(900)	(1.000)
Silver	ounces	1,055,000	983,500
	(kg)	(32,800)	(30,600)
Gold	ounces	7,000	6,500
	(kg)	(218)	(202)
No. of employ	ees at		
vear-end		1,194	1,227

Ore milled is reported at 100 percent; the metal contained in production reported is Cominco's 50 percent share.

SNIP

		1991
Ore milled ¹	tons	135,200
	(tonnes)	(122,600)
Gold		
Average ore g	rade	
	oz./ton	0,89
	(g/tonne)	(3(0.4)
Concentrate	tons	3,780
•-	(tonnes)	(3,431)
Average conc	entrate	
grade	oz./ton	12.8
-	(g/tonne)	(440)
Bullion	ounces	16,950
	(kg)	(527)
No. of employ	ees at	
vear-end		126

Ore milled is reported at 100 percent: the metal contained

Snip

The Snip gold mine is a joint venture between Cominco (60 percent) and Prime Resources Group, Inc. (40 percent). The underground mine is located on the Iskut River about 60 miles (100 km) northwest of Stewart, B.C.

Ore treated from the start-up date of January 25 through year-end averaged 398 tons (361) per day, compared with the design capacity of 300 tons (272) per day, and at better than planned grade. Overall gold recovery averaged 91.1 percent, with the fourth quarter averaging 92.2 percent. The operation has exceed-

been profitable at current gold prices. Gold in concentrate (75 percent of production) was shipped via Wrangell, Alaska, and Vancouver to Japan. Gold in bullion (25 percent of production) is marketed in Canada.

Magmont

Magmont is a 50:50 joint venture operation of Cominco American Incorporated and Dresser Industries Incorporated. The underground mining operation at Bixby, Missouri, produces lead, zinc and copper concentrates. Pillar mining continues to contribute to mine production.

The Magmont work force was reduced 20 percent while continuing to maintain production levels. The reductions were required to remain competitive in the world market. Fifty percent of the lead concentrate was sold in Missouri and the remainder to foreign smelters, which constitute a new market for Magmont. Despite low metal prices, Magmont has been profitable.

Surface drilling yielded no new extensions and added very little additional ore reserves. More than 500,000 tons (453,600) were added to total reserves through block adjustments after mining exceeded original reserve estimates. Engineering studies on increasing the number of pillars available for recovery are continuing. Magmont continues to plan for eventual ore exhaustion and shutdown in the next two to three years.

Buckhorn

The Buckhorn gold mine in Eureka County, Nevada. is operated by a subsidiary of Cominco Resources International Limited, which owns 76.4 percent of the property.

Mining ceased in May and crushing operations ended in June 1991. At year-end, approximately 132,300 tons (120,000) of ore grading .056 ounces of gold per ton (1.9 g/tonne) were under primary leach and 440,900 tons (400,000) of ore were being re-leached. Leaching and gold recoveries will continue into 1992.

The operation has entered the closure phase and the major pieces of equipment have been sold. Reclamation around the open pits and access roads on the property began in the third quarter and will be completed in 1992.

Glenbrook

Cominco American Incorporated and a wholly-owned subsidiary of Cominco Resources International Limited operate the Glenbrook nickel smelter in Riddle, Oregon, as a joint venture. The smelter doubled production from the previous year by treating higher grade ore from the adjacent mine, rather than low-grade stockpiles. Treatment of mined ore required rehabilitating a dryer and crushing plant in the first quarter of the year at a capital cost of \$2.5 million. Sufficient mine reserves have been delineated to enable the operation to treat ore grading about 1.25 percent nickel at least through 1992. The operation has been profitable despite low nickel prices.

In June 1991, a 20,000-ton (18,140) shipment of higher grade ore (2.5 percent nickel) was shipped from New Caledonia to the port at Coos Bay, Oregon, to test the feasibility of treating this ore through the Glenbrook smelter. The transportation and processing were completed in July and confirmed the viability of importing and treating this ore. A decision has been made by the joint venture to proceed with the project which will entail purchasing and rehabilitating a dock facility, constructing a dryer and crushing plant at the port of Coos Bay, and modifications to the Riddle smelter. Construction is expected to be complete by the fourth quarter of 1992 at a cost of \$33.0 million. This will increase production at Glenbrook to 36,000,000 pounds of nickel in ferronickel per year. Included in the project is construction of a shot casting facility which will enable marketing of the ferronickel in two forms: 28-pound ingots or minus

MAGMONT

MAGMUI	N I		
		1991	1990
Ore treated	tons	1,122,900	1,084,900
	(tonnes)	(1,018,700)	(984,200
Lead			
Average ore g	grade	6.5%	7.1%
Concentrate	tons	45,600	47.800
	(tonnes)	(41,400)	(43,400
Average conc	entrate		
grade		78.3%	78.0%
Zinc			
Average ore g	grade	1.0%	1.0℃
Concentrate	tons	7,800	7,7(X)
	(tonnes)	(7,100)	(6.900
Average conc	entrate		
grade		59.5%	58.2%
Copper			
Average ore g	grade	0.2%	0.3%
Contained in	concentrate		
	tons	700	800
	(tonnes)	(630)	(730
No. of employ	yees at		
year-end		151	190
-			

Ore treated is reported at 100 percent; the concentrate tonnage reported is Cominco's 50 percent share of production.

BUCKHORN

		1991	1990
Ore crushed	tons	297,000	826,700
Ole clusiled			
	(tonnes)	(269,000)	(750,000)
Gold			
Average ore g	rade		
	oz./ton	0.056	0.059
	(g'tonne)	(1.9)	(2.0)
Production			
Gold	ounces	16,600	14,800
	(kg)	(515)	(459)
No. of employ	ees at		
year-end		24	80

Ore crushed is reported at 100 percent. Production ounces are Cominco Resources' 76 percent share of production.

GLENBROOK

		1991	1990
Ore processed	tons	696,500	610,000
•	(tonnes)	(631,800)	(553.000)
Average ore g	rade		
Nickel		1.18%	0.94%
Contained nic	kel		
Produced	lbs.	15,575,500	8,160,000
	(kg)	(7,071,050)	(3,700,900)
Slag by-produ	icts		
	tons	47,600	24,400
	(tonnes)	(43, 200)	(22,100)
No. of employ	vees at		
year-end		306	277
Production re	ported at 100	percent.	

Ore Reserves

Operating Mines (Measured and Indicated Ore unless otherwise noted¹)

			1991					1990	
	Cominco Ltd. Interest	Ore Tons x 1000	% Pb	% Zn	Ag oz./ton	Ore Tons x 1000	% Pb	% Zn	Ag oz./ton
Sullivan	100	20,300	4.7	7.6	0.8	22,800	4.5	7.3	0.8
Polaris	77.5	11,050	3.9	14.0		13,000	3.8	14.1	
Magmont	50	3,000	8.7	1.3	0.4% Cu	3,500	8.2	1.3	0.3% Cu
Troya	47.8	1,450	0.8	11.2		1,749	0.8	11.3	
Hellyer	46.3	14,100	6.0	12.0	4.1	15,700	6.4	12.4	4.37
Red Dog	1003	65,800 15,600 ²	5.5 2.7	18.4 10.0	2.7 1.2	67,000 16,000 ²	5.4 2.7	18.5 10.0	2.7 1.2
Glenbrook	82.3	650	1.259	% Ni		940	1.3	Ni	
Highland Valley	50	763,000 39,000 ²	0.41 9 0.45 9			839,300 38,000 ²		1% Cu 4% Cu	
Warm Springs	100	6,800	30.09	% P ₂ O ₄		6,900	30.0	0% P₂O₄	
Vanscoy	100	124,900		% K,O equiv.		125,000		0% K ₂ O equiv.	
Owens Lake	100	33,000	Na ₂ C	O ₃ equiv.		33,000	Na-	CO ₃ equiv.	
Snip	60	800 160 ²	0.83	oz. Au/ton oz. Au/ton		870 170 ²		5 oz. Au/ton 5 oz. Au/ton	
Maria	31.7	· 360 430 ²		% Cu; 0.25% Cu; 0.67% N		510 430 ²		8% Cu; 0.25% Mo % Cu; 0.67% Mo	1.8

Advanced Projects (Measured and Indicated Ore unless otherwise noted)

			1991		1990
	Cominco Ltd. Interest	Ore Tons x 1000	Grade	Ore Tons x 1000	Grade
Quebrada Blanca	•				
Enriched Zone	49.3	93,000	1.3% Cu	85,000	1.4% Cu
Mariquita	64.6	23,000	0.53% Cu	23,000	0.53% Cu
Alder Gulch	64.6	33,000	4.0% Garnet	30,000	4.0% Garnet
San Martin	64.6	800	65% Wollastonite	800	65% Wollastonite

^{&#}x27;Mineral reserves of Cominco and associated companies are classified as Measured, Indicated and Inferred. The reserves are reviewed annually by the Company's engineering and geological staff and are based upon individual evaluations of operating results, drilling, other engineering data, and long-term metal price forecasts. The term "measured" is limited to those reserves at a mine which can be projected from one or more exposed faces on the basis of actual operating results. Reserves are classified as "Indicated" where there is sufficient information about the deposit or a portion of it to form the basis of a mine production forecast. Reserves computed on the basis of more limited information but adequate geological data to form the basis of a preliminary mine production plan are classified as "Inferred". Ore reserve figures are total reserves at the mines and are not limited to Cominco's interest.

³ Subject to escalating royalty.

Other Resources⁴

				1991		1990
	(Cominco Ltd. Interest	Ore Tons x 1000	Grade	Ore Tons x 1000	Grade
Pebble Copper	(Probable & Possible Resource)	100	500,000	0.35% Cu; 0.012 oz.Au/ton	200,000	0.4% Cu; 0.012 oz. Au/ton
Quartz Hill	(Probable Resource)	100	230,000	0.22% MoS ₂		
			1,200,000	0.12% MoS ₂		
Quebrada Blanca	a					
Protore	(Possible Resource)	49.3	250,000	0.5% Cu	250,000	0.5% Cu
Maria	(Possible Resource)	31.7	400	1.4% Cu; 0.36% Mo	400	1.4% Cu; 0.36% Mo
Lobo	(Probable & Possible Resource)	32.3	70,000	0.047 oz. Au/ton	70,000	0.047 oz. Au/ton
Sheep Creek	(Possible Resource)	32.3	4,400	4.0% Cu	5,000	4.0% Cu
Pinchi	(Possible Resource)	100	1,200	6.4 lb. Hg/ton	1,200	6.4 lb. Hg/ton

⁴ The term "resource" is used for an estimate of mineralization of expected economic merit, but before complete geological, mine, metallurgical and cost data is available. The term "probable resource" is used when sufficient information is known about the geology, thickness, grade, continuity and extent of the deposit to permit defined grade and tonnage figures. "Possible resource" is a projection of mineralization computed on the basis of limited drilling but a reasonable understanding of the geology and the distribution and correlation of metal values.

² Inferred Ore.

-> SNIP

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erating costs were below the prior year's level. The high level of productivity matched the level established in 1992, and the mine was profitable for the year despite low zinc and lead prices.

Shipments of zinc and lead concentrates, totalling 234,000 tonnes, were made to Europe between July 15 and October 29.

A water licence was renewed, which will cover the operation to near the end of its life. Exploration efforts were reduced in 1993 due to financial considerations, but work did continue on defining targets for future drilling.

POLARIS

	1993	1992
Ore milled tonnes	1,026,800	1,066,700
Zinc		
Average ore grade	12.3%	13%
Concentrate tonnes	451,200	168,900
Average concentrate grade	62.3%	61.8%
Lead		
Average ore grade	3.5%	4.1%
Concentrate tonnes	31,700	40,100
Average concentrate grade	78.8 %	78.8%
No. of employees at year-end	227	239
Ore milled is reported at 100 percent. sent Cominco's 77.5 percent share.	Concentrate produ	ction data repre-

Highland Valley Copper

The Highland Valley Copper mine is in southern British Columbia near Kamloops. The Highland Valley Copper partnership comprises Cominco (50 percent), Rio Algom Limited (33.6 percent), Teck Corporation (13.9 percent, including 2.5 percent from Highmont) and Highmont Mining Company (2.5 percent, excluding Teck's 2.5 percent).

Mining was carried out in both the Valley and Lornex pits, with 87 percent of the ore coming from the former. The mill processed 44,473,000 tonnes during 1993, achieving an average daily throughput of 121,800 tonnes, slightly above last year's level of 120,300 tonnes. Total production of copper contained in concentrate was 156,800 tonnes, of which Cominco's share was 78,400 tonnes. Copper production was lower than in previous years due to lower grade from the ore mined on the periphery of the orebody where oxidation has occurred. This also

pared with a record recovery of 89 percent in 1992. However, productivity improvements were achieved through the use of larger equipment, relocation of the in-pit crushers and an upgrade of the mine dispatch system.

Cominco's share of Highland Valley Copper's earnings was \$5 million, compared with \$58 million in 1992. The reduction in earnings was due to the decline of the price of copper from U.S. 103.5¢/lb. in 1992 to U.S. 86.8¢/lb. in 1993.

For the fourth consecutive year, Highland Valley Copper was awarded the John Ash Trophy for being the safest large mining operation in British Columbia.

The collective agreement with the United Steelworkers expired on September 30, and at year-end negotiations were continuing.

HIGHLAND VALLEY COPPER

-		1993	1992
Ore milled ¹	tonnes	44,473,000	44,064,000
Copper			
Average ore gra	ade	0.42%	0.45%
Contained in			
concentrate	tonnes	78,400	85,500
Molybdenum			
Average ore gra	ade	0.009%	0.009%
Contained in			
concentrate	tonnes	800	900
Silver	kilograms	29,700	32,600
Gold	kilograms	200	215
No. of employe	ees at year-end	1,140	1,190
Ore milled is repor	rted at 100 percent;	the metal contained	l in production re-

Ore milled is reported at 100 percent; the metal contained in production reported is Cominco's 50 percent share.

Snip

The Snip gold mine is on the Iskut River, 100 kilometres northwest of Stewart, B.C. This underground operation is a joint venture between Cominco Ltd. (60 percent) and Prime Resources Group Inc. (40 percent).

An average of 468 tonnes per day were milled in 1993, with emphasis being placed on development of more narrow conventional stopes to balance the wider mechanized stopes. Ore grade was slightly higher than the reserve grade of 28.5 grams per tonne. Metallurgical recovery increased to 91.7 per-

ant (01.2 in 1002) and manage abances massles dis

an improved recovery in the gravity circuit. Snip was profitable for the year.

In-mine exploration again resulted in adding new ore to the mineable reserves. Mine life at current production rates is estimated at five years.

SNIP

	1993	1992
tonnes	170,930	164,700
g/tonne	29.7	31.7
tonnes	5,340	5,000
ntrate		
g/tonne	317	417
ion		
kilograms	1,700	2,100
kilograms	1,090	760-
ees at year-end	131	125
	g/tonne tonnes ntrate g/tonne ion kilograms kilograms	g/tonne

¹ Ore milled is reported at 100 percent; the metal contained in production reported is Cominco's 60 percent share.

Magmont

The Magmont underground lead-zinc-copper mine is at Bixby, Missouri. It is a 50:50 joint venture between Cominco American Incorporated and Dresser Industries, Inc.

In 1993, Magmont celebrated 25 years of operation and 25.5 million tons of ore mined at a grade of 7.5 percent lead, 1.2 percent zinc, and 0.3 percent copper.

Pillar and sill recovery accounted for the bulk of mine production at Magmont, which was insufficient to operate the mill at capacity. Fifty percent of the lead concentrate was sold in Missouri, with most of the remainder stockpiled. A small portion was sold to foreign smelters. Prolonged low metal prices resulted in a loss for the year.

Due to orebody depletion, the workforce at Magmont has been reduced to a minimum. Shutdown due to ore exhaustion will occur in 1994.

MAGMONT

11414 ()114 ()114		
	1993	1992
Ore treated ¹ tonnes	631,100	872,800
Lead		
Average ore grade	7.0%	6.1%
Concentrate tonnes	27,800	33,300
Average concentrate grade	77.1%	77.8%
Zinc		
Average ore grade	1.2%	1%
Concentrate tonnes	5,300	6,400
Average concentrate grade	58.4%	57.9%
Copper		
Average ore grade	0.3%	0.3%
Contained in		
concentrate tonnes	500	700
No. of employees at year-end	124	126
Ore treated is reported at 100 percent: the	he concentrate toni	nage reported is

Ore treated is reported at 100 percent; the concentrate tonnage reported is Cominco's 50 percent share of production.

María

The María copper mine and concentrator is near Cananea in the State of Sonora, Mexico. It is owned and operated by Minera María S.A. de C.V., which in turn is owned 49 percent by a wholly owned subsidiary of Cominco Resources International Limited, with the remainder owned by the mine operator Empresas Frisco, S.A. de C.V.

The María mine and concentrator had another profitable year in 1993, although mining of the high-grade ore was almost completed. During the year, 214,900 tonnes of ore with an average grade of 7.2 percent copper were mined. The concentrator treated 227,400 tonnes of ore grading 7.4 percent copper, producing 51,600 tonnes of concentrate grading 30.4 percent copper. Cominco Resources' share of copper in concentrate was 7,700 tonnes.

New equipment was installed in the concentrator to allow the production of molybdenum concentrate. Additional mine development started during 1993 to prepare for extraction of copper-molybdenum ore. This ore is significantly lower grade than the high-grade copper ore that has been mined to date, but, depending on metal prices, it is expected operations will continue at María into the second half of 1995.

Cominco and Cominco Resources are also in a joint venture with a third company to drill a promising gold property on an island of Vanuatu in the South Pacific. Jointly sponsored Cominco Resources—

Cominco Ltd. programs are also planned in Argentina, Greenland and Germany, while developments in China and the Commonwealth of Independent States will be monitored for opportunities.

Ore Reserves – 1993

(Metric units)

Operating Mines (Measured and Indicated Ore unless otherwise noted)

		1993				1992			
	Cominco Ltd. Interest	Ore Tonnes ×1000	Pb %	Zn %	Ag g/t	Ore Tonnes ×1000	Pb %	Zn %	Ag g/t
Sullivan	100	14,800	4.7	8.0	26	15,800	4.7	7.9	26
Polaris	77.5	8,600	3.7	13.4		9,500	3.7	14.0	
Magmont	50	2,500	8.3	1.2		2,600	8.5	1.3	
Red Dog	100 ³	56,800	5.5	18.4	93	58,200	5.5	18.4	93
C		14,100 ²	2.7	10.0	41	$14,100^2$	2.7	10.0	41
Glenbrook	79.6	466	1.27% Ni			650	1.25% Ni		
Highland Valley	50	595,000	0.42% Cu	,		633,000	0.41% Cu		
		32,000 ²	0.45% Cu	•"		$35,000^2$	0.45% Cu		
Owens Lake	100	30,000	Na,CO, eq	uiv.		30,000	Na,CO, equ	v.	
Snip	60	655	27.0 g/t Au			641	28.5 g/ť Au		
•		_ 156 ²	23.7 g/t Au			230 ²	26.7 g/t Au		
María	29	41	7.0% Cu,			250	7.9% Cu, 0.	1% Mo, 42	g/t Ag
		250	1.7% Cu,	0.65% Mo		215 ²	1.8% Cu, 0.	7% Mo, 10	g/t Ag

Advanced Projects (Measured and Indicated Ore unless otherwise noted)

•			1993	1992		
	Cominco Ltd. Interest	Ore Tonnes ×1000	Grade	Ore Tonnes × 1000	Grade	
Quebrada Blanca Enriched Zone Mariquita Alder Cerattepe	43.6 59.2 35.5 59.2	89,000 33,000 30,000 1,100 1,600	1.3% Cu 0.47% Cu 4.0% Garnet 10.0% Cu 5.2 g/t Au, 200 g/t Ag	89,000 21,000 30,000 1,200	1.3% Cu 0.53% Cu 4.0% Garnet 10.0% Cu	

¹ Mineral reserves of Cominco and Associated Companies are classified as measured, indicated and inferred. The reserves are reviewed annually by the Company's engineering and geological staff and are based upon individual evaluations of operating results, drilling, other engineering data, and long-term metal price forecasts. The term "measured" is limited to those reserves at a mine that can be projected from one or more exposed faces on the basis of actual operating results. Reserves are classified as "indicated" where there is sufficient information about the deposit or a portion of it to form the basis of a mine production forecast. Reserves computed on the basis of more limited information but adequate geological data to form the basis of a preliminary mine production plan are classified as "inferred." Ore reserve figures are total reserves at the mines and are not limited to Cominco's interest.

² Inferred Ore.

³ Subject to escalating royalty.

Other Resources ²								
				1993		1992		
		Cominco Ltd. Interest	Ore Tonnes ×1000	Grade	Ore Tonnes ×1000	Grade		
Pebble Copper Quartz Hill	(Probable Resource) (Probable Resource) (Possible Resource)	100 100	420,000 210,000 1,100,000	0.35% Cu, 0.4 g/t Au 0.22% MoS ₂ 0.12% MoS,	420,000 210,000 1,100,000	0.35% Cu, 0.4 g/t Au 0.22% MoS ₂ 0.12% MoS ₃		
Quebrada Blanc Protore Sheep Creek Pinchi Cerattepe Mariquita	(Possible Resource) (Possible Resource) (Possible Resource) (Possible Resource) (Possible Resource)	46.1 59.2 100 59.2 59.2	225,000 4,000 1,100 3,800 10,000	0.5% Cu 4.0% Cu 3.2 kg/t Hg 2.0% Cu 0.43% Cu	225,000 4,000 1,100 3,800	0.5% Cu 4.0% Cu 3.2 kg/t Hg 2.1% Cu		

⁴The term "resource" is used for an estimate of mineralization of expected economic merit, but before complete geological, mine, metallurgical and cost data are available. The term "probable resource" is used when sufficient information is known about the geology, thickness, grade, continuity and extent of the deposit to permit defined grade and tonnage figures. "Possible resource" is a projection of mineralization computed on the basis of limited drilling but a reasonable understanding of the geology and the distribution and correlation of metal values.

ESKAY CREEK IS THE HIGHEST

Honestake 1992 Ann. RA

GRADE MAJOR GOLD DEPOSIT

DISCOVERED IN THIS CENTURY

Following a review of the results from a diamond drilling program, Homestake decided to proceed with an expansion of the other pit that is anticipated to extend the mine's life to 1997, with annual production of 80,000 ounces.

Golden Bear North American Metals Corp. (NAM), an 83%-owned subsidiary of Homestake, owns the Golden Bear mine in northern British Columbia. Due to several years of operating difficulties and continued low gold prices, Homestake wrote down its remaining investment in NAM in 1992.

Gold production more than doubled to 58,224 ounces reflecting the change of ownership of the mine from 50% to 100% in late 1991. In early 1993, the Company ceased underground mining and began evaluating various operating alternatives. Homestake recorded a \$7.1 million charge in 1992 to write down equipment, ore stockpiles and inventories, and provide for reclamation and closure costs.

Snip The Snip underground mine, located in northern British Columbia, produced 30,558 ounces for Homestake's account in its second full year of operation.

During 1992, the mill was modified to increase gold recovery from the gravity circuit. A new dewatering filter should be fully operational during the first quarter of 1993, which will reduce concentrate moisture content and related freight costs. Exploration efforts replaced approximately half of the ore milled during 1992. Homestake's interest in the property increased to 21.7% from 19.9% in December 1992.



Hoist cable, Homestake mine, South Dakota

Development Property - Eskay Creek The Eskay Creek project consists of four mining leases comprising approximately 1,250 acres in northwestern British Columbia. Homestake holds its 54% interest in the project through its investment in Prime Resources Group Inc. and Stikine Resources Ltd.

In 1992, the project development team verified the use of pressure oxidation technology (autoclave) as the most viable metallurgical process. While more than 7,000 feet of underground development was completed prior to 1992, development work last year consisted mainly of preparing an 11-ton bulk sample for test work. Several independent laboratories conducted test work to establish preliminary operating conditions for the autoclave and associated opera-

Statistical Summar Homestake Mining Company and Subsidiaries

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	Mine				Production				Reserves ⁴			
		0/0 Over	eeshiq Vest	Produció	n or hilleed	Grade Grade	off, land	Capa,	penine con Si	oduction cost	Slot.	Ourcestri
Canada	Williams	50	1992 1991 1990	248,460 259,352 297,064	1.3 1.2 1.3	0.205 0.227 0.249	95.4 95 95	\$186 \$182 \$170	\$238 \$224 \$213	17.6 17.6 18.7	0.174 0.174 0.171	3.1 3.1 3.2
	David Bell	50	1992 1991 1990	105,256 141,564 159,049	0.3 0.3 0.3	0.426 0.570 0.637	95.4 96 97	\$156 \$113 \$118	\$203 \$166 \$163	3.5 3.8 3.8	0.321 0.328 0.363	1.1 1.2 1.4
	Quarter Claim	25	1992 1991 1990	16,204 18,585 20,978	0.05 0.05 0.05	0.356 0.447 0.467	96.5 97 96	\$140 \$105 \$147	\$140 \$105 \$147	0.4 0.5 0.5	0.254 0.308 0.312	0.1 0.2 0.2
	Nickel Plate	100	1992 1991 1990	84,673 91,396 76,296	1.4 1.3 1.3	0.073 0.085 0.073	84.9 85 84	\$295 \$332 \$393	\$365 \$351 \$393	5.9 2.1 3.0	0.076 0.090 0.081	0.4 0.2 0.2
	Golden Bear	100 50	1992 1991 1990	58,224 28,350 9,613	0.1 0.1 0.1	0.450 0.499 0.351	88.9 89.0 81.3	\$293 \$313 N/M	\$302 \$369 N/M	0.2 0.5 0.3	0.515 0.618 0.528	0.1 0.3 0.1
	Snip	22 20	1992 1991 1990	30,558 21,335	N/M N/M	0.923 0.887	91 91 -	\$145 \$178 -	\$200 \$243	0.2 0.2 0.2	0.831 0.830 0.849	0.1 0.1 0.1
Total Homestake ⁵			1992 1991 1990	1,845,397 1,742,054 1,908,916	- - -	-	- - -	\$248 \$269 \$248	\$303 \$333 \$304	185.3 194.3 198.5	N/M N/M N/M	17.3 18.5 19.6
Minority Interest			1992 1991 1990	66,196 59,241 70,556	- - -	-	- - -	- - -	- -	- -	- - -	_

⁵Includes production from closed operations not listed.

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Hon Cash Costs	Corporate	ration ion
Cas	arporar inisi	tation Exploration
40.	Co. Mar	C.A.

Other Costs (\$/oz.)

1992	\$55	\$25	\$15
1991	\$64	\$26	\$26
1990	\$56	\$26	\$26

Gold Price	1992	\$348
(\$/oz.)	1991	\$376
	1990	\$392

N/M=Not meaningful.

1 Homestake proportionate interest.

2 Excludes depreciation, amortization and reclamation accruals.

3 Excludes corporate, administrative, exploration and general expenses.

Proven and probable.

	1		Year Ended December 31,							
			1999			1998				
		Tonnes	Average	Ounces	Tonnes	Average	Ounces			
	%	Processed	Grade	Produced	Processed	Grade	Produced			
	Interest	(thousands)	(gr/tonne)	(thousands)	(thousands)	(gr/tonne)	(thousands)			
United States				,						
Homestake	100	1,133	5.851	212.7	1,882	4.829	277.4			
Ruby Hill	100	1,109	3.947	123.8	1,201	3.356	116.5			
McLaughlin	100	2,571	2.390	121.5	2,576	2.637	128.7			
Round Mountain	25	11,999	0.565	135.5	10,549	0.548	127.6			
Pinson	50	60	1.061	6.0	773	1.301	17.3			
Marigold	33	1,073	0.886	24.7	973	0.925	24.0			
Subtotal Unite	ed States			624.2			691.5			
Canada										
Eskay Creek (1)	100	175	107.466	558.4	147	109.418	504.8			
Hemlo:				305.2			286.3			
Williams	50	1,216	5.684	211.8	1,234	5.205	195.2			
David Bell ⁽²⁾	50	222	11.832	93.4	212	12.158	91.1			
Snip ⁽³⁾	100	65	22.765	42.3	145	23.733	99.3			
	Canada			905.9			890.4			
Australia	-									
Kalgoorlie	50	10,587	2.396	360.1	5,657	2.432	390.2			
Yilgarn:				453.9			459.4			
Plutonic	100	3,034	2.824	236.5	2,947	3.048	255.5			
Darlot	100	689	5.337	113.1	670	3.801	77.5			
Lawlers	100	607	5.681	104.3	572	7.123	126.4			
Peak Hill	67	589	1.710	21.5	425	1.781	23.8			
Mt Morgans	80	-	-	-	728	2.534	52.3			
Subtotal	Australia			835.5			925.7			
Chile										
Agua de la Falda	51	147	8.197	24.4	142	7.397	24.1			
Total Production (3)				2,390.0			2,531.7			
Minority Interests				-		· · · · · · · · · · · · · · · · · · ·	(273.4)			
Homestake's Share	:			2,390.0			2,258.3			

Ounces produced are expressed on a gold equivalent basis and include 68,100 (67,800 in 1998) ounces of gold and 2.8 million (2.6 million in 1998) ounces of silver contained in ore and concentrates sold to smelters in the fourth quarter, and 309,000 (282,100 in 1998) ounces of gold and 13.1 million (11.7 million in 1998) ounces of silver contained in ore and concentrates sold to smelters in the 12-month period.

² Ounces produced include 2,900 and 11,300 ounces of gold production in the quarter and 12-month periods, respectively, from the Quarter Claim in both 1999 and 1998. Homestako - 1999

³ Includes ounces of gold contained in dore and concentrates.

	[Year-to	-Date		
			1999			1998	
	%	Tons Processed	Average Grade	Ounces Produced	Tons Processed	Average Grade	Ounces Produced
	Interest	(thousands)	(oz/ton)	(thousands)	(thousands)	(oz/ton)	(thousands)
United States							
Homestake	100	889	0.178	158.3	1,587	0.141	210.9
Ruby Hill	100	948	0.110	91.3	968	0.103	88.8
McLaughlin	100	2,102	0.071	93.7	2,117	0.079	97.8
Round Mountain	25	9,445	0.017	102.4	9,348	0.016	104.1
Pinson	50	66	0.031	5.6	702	0.037	14.1
Marigold	33	924	0.025	17.6	746	0.026	17.4
Subtotal Unite	d States			468.9			533.1
Canada				B 673 0989	1 .		
Eskay Creek (1)	100	146	3.201	439.6	fu 123	3.283	393.0
		1:32 422	109,75A		0		
Hemlo:			eg	225.2			215.7
Williams	50	1,003	0.165	157.1	1,025	0.148	144.2
David Bell ⁽²⁾	50	185	0.335	68.1	183	delak/(olbona)	71.5
Snip (3)	100	71	0.665	42.1	121	0.725	78.8
	Canada	14 1044	and and	706.9	>		687.5
Australia		6 1 0177	1217	455	FT 1309 4	1579	
Kalgoorlie	50	4,286	0.069	254.0	4,683	0.071	291.4
Yilgarn:	•			334.6			322.8
Plutonic	100	2,487	0.082	167.6	2,473	0.084	179.1
Darlot	100	566	0.154	83.4	558	0.102	53.0
Lawlers	100	501	0.177	83.6	477	0.201	90.7
Peak Hill	67	367	0.049	17.5	352	0.054	18.3
Mt Morgans	80	-			712	0.077	46.5
	Australia			606.1			679.0
Chile							
Agua de la Falda	51	118	0.243	16.4	119	0.201	17.5
Total Production Minority Interests				1,798.3			1,917.1
Homestake's Share				1,798.3			(233.1 1,684.0

Ounces produced are expressed on a gold equivalent basis and include 80,300 (70,900 in 1998) ounces of gold and 3.6 million (2.8 million in 1998) ounces of silver contained in ore and concentrates sold to smelters in the third quarter, and 240,900 (214,300 in 1998) ounces of gold and 10.3 million (9.1 million in 1998) ounces of silver contained in ore and concentrates sold to smelters in the year-to-date period.

Ounces produced include 2,900 and 8,500 ounces of gold production in the quarter and year-to-date periods, respectively, from the Quarter Claim in both 1999 and 1998.

Includes ounces of gold contained in dore and concentrates.

otal 1999 Fd. Au = 321, 200 02
Aa = 13,9 Moz 339 Fai

592.8 Moz Au equiv. (18.4 11 kg) | 07 Au = 44.83 or Ag

	ſ			Third C	Juarter	-	
			1999	Tillia	quarter)	1998	
	-	Tons	Average	Ounces	Tons	Average	Ounces
	%	Processed	Grade	Produced	Processed	Grade	Produced
	Interest	(thousands)	(oz/ton)	(thousands)	(thousands)	(oz/ton)	(thousands
	Timerest	(tilousarius)	(02/1011)	(tilousarius)	(iiiousarius)	(021011)	tirousarius
United States							
Homestake	100	381	0.152	55.5	521	0.130	64.
Ruby Hill	100	350	0.109	33.0	282	0.109	27.
McLaughlin	100	716	0.067	29.9	718	0.073	32.
Round Mountain	25	3,660	0.015	37.2	2,560	0.016	34.
Pinson	50	4	_	0.7	207	0.036	3.
Marigold	33	318	0.029	4.8	234	0.019	5.
Subtotal Unit				161.1			168.
					2		A CONTRACTOR OF THE CONTRACTOR
Canada	2000000000000				_		
Eskay Creek (1)	100	50	3.337	153.2	42	2.927	121.
Hemlo:			111119	75.8			73
Williams	50	318	0.170	51.4	338	0.151	48
David Bell (2)	50	63	0.343	24.4	58	0.391	24
2 : (3)		2				0.700	
Snip (3)	100	-		0.2) 42	0.762	28
Subtota	al Canada			229.2			223
Australia				a			
Kalgoorlie	• 50	1,612	0.071	98.1	1,485	0.073	92
Yilgarn:	# n			114.3			118
Plutonic	100	870	0.087	62.1	816	0.093	67
Darlot	100	195	0.153	28.4	177	0.139	22
Lawlers	100	168	0.148	23.8	163	0.187	28
Peak Hill	67	123	0.045	5.5	121	0.051	5
Mt Morgans	80	-	0.010	-	257	0.056	11
	Australia			217.9	201	0.000	228
Chile							
Agua de la Falda	51	40	0.262	3.8	44	0.206	5
Total Production				612.0			605
Minority Interests				612.0			625 (74
, included							1/4
Homestake's Share				612.0			551

[Total Cash Costs							Total Costs								
	(dollars per ounce)							(dollars per ounce)								
	199		1998			1999				1998						
	3rd	Year to		3rd		Year to			3rd		Year to		3rd		Year to	
	Quarter	Da	te	Qı	uarter		Date	Qı	uarter	D	ate	Qı	uarter		Date	
United States																
Homestake	\$ 250	\$	257	\$	256	\$	252	\$	267	\$	273	\$	313	\$	308	
Ruby Hill	94		103		120		125		228		236		235		239	
McLaughlin	232		223		220		217		316		346		339		339	
Round Mountain	198		200		200		200		265		268		253		251	
Pinson	-		242		607		425		-		242		651		462	
Marigold	180		206		282		262		235		246		330		288	
Subtotal United States	200		206		222		219		267		278		300		295	
Canada																
Eskay Creek (1)	126		128		138		130		195		198		170		162	
Eshay Creek	120		120		130		130		133		130		170		102	
Hemlo:	183		200		199		211		221		236		235		249	
Williams	192		205		211		221		232		241		248		259	
David Bell	165		187		175		192		198		223		209		228	
Bavia Beii	100				,,,,	*	02		100				200		220	
Snip ⁽¹⁾	_		208		173		199		-		208		303		332	
Subtotal Canada	145		156		162		164		203		211		208		209	
Australia																
Kalgoorlie (2)			227		045		222		200		270		250		202	
Kaigoonie	231		237		215		232		269		278		259		283	
Yilgarn:	191		206		191		226		226		241		232		276	
Plutonic	194		229		201		235		230		270		252		304	
Darlot	195		194		200		264		234		230		228		296	
Lawlers	180		170		162		185		207		193		187		208	
Peak Hill	179		179		261		273		194		192		281		292	
Mt Morgans	_		-		253		234		-		.02		273		261	
Subtotal Australia	209		218		206		230		245		255		247		279	
Ohit-																
Chile	107		400		000		000		075		000		000		a	
Agua de la Falda	167		188		203		202		275		280		296		291	
Consolidated	¢ 400	ф	100	ď	405	ď	202	•	225	æ	044	Φ.	0.46	•	0.50	
Weighted Average	\$ 182	\$	190	\$	195	\$	203	\$	235	\$	244	\$	248	\$	258	
Minority Interest				Φ	144	4	140					0	104	Φ	400	
Weighted Average Homestake's Share				\$	144	\$	142					\$	194	\$	189	
1	¢ 400	C	100	Œ	202	•	242	6	225	æ	244	¢.	255	æ	200	
Weighted Average	\$ 182	\$	190	\$	202	\$	213	\$	235	\$	244	\$	255	\$	268	

¹ For comparison purposes, costs per ounce include estimated third-party costs incurred by smelter owners and others to produce marketable gold and silver.

lncludes the effect of insurance proceeds received and credited to processing costs of \$0.2 million and \$4.8 million in the 1999 third quarter and year-to-date periods, respectively.

->SNIP

JOLU MINE (Corona 30%)

	1990	1989
Gold production (oz)	74,065	75,722
Direct operating cost		
per ounce	US\$166	US\$154
		Gold
		grade
	Tons	(oz/ton)
Proven and probable		
reserves at		
October 1, 1990	142,000	0.369
Above numbers are for 100% of	mine.	

The Jolu mine in Saskatchewan, 80 miles north of La Ronge, continued to do well in 1990. Gold production was 10% higher than planned, and close to 1989 levels, despite a drop in grade. Direct operating costs per ounce were higher than the previous year, but 11% less than expected. On a per ton basis, costs were \$76 in 1990 compared to \$78 in 1989.

Corona operates and has a 30% interest in the 184-hectare Jolu property. The remaining 70% is owned by International Mahogany Corp.

Jolu poured its first gold in November 1988 and began commercial production for accounting purposes on January 1, 1989. The main Rod zone is developed by a ramp from surface to a depth of 1,300 feet. Mining of all known ore in the zone was completed in December of 1990, underground drilling during the year having failed to discover any more signif-

icant mineralization at depth. The remaining broken ore will be hauled to surface for processing in the early part of 1991.

Contributing to 1990 production was gold from the Decade zone. Development of this small zone by ramp to a depth of 140 feet began in April. Mining was completed in October.

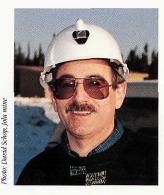
Constructed with a design capacity of 400 tons per day, the Jolu mill has been operating at more than 500 tons per day since the fourth quarter of 1989. Milling is expected to continue until mid-1991 when an orderly shutdown is anticipated. Decommissioning and severance expenses are expected to be approximately \$2 million. Corona expects a satisfactory return on its investment in the Jolu operation.

A treatment plant was installed at a cost of \$105,000 to reduce the levels of copper and cyanide in tailings effluent. Operated seasonally, it is expected this plant will continue to run during the decommissioning phase after production ceases.

Exploration of nearby properties was carried out during the year in an effort to find additional ore for the Jolu mill, but without success.

Mining activities at Jolu have been carried out by a contractor while milling and supervisory tasks are the responsibility of Corona personnel. Employees, numbering 50 at year-end, had completed 700 days without a lost-time accident at December 31, 1990.





Garry Biles, mine manager at Jolu, on a tour of inspection.

SNIP MINE

(Corona 19.9% indirect)

Corona's newest source of gold production is the Snip underground mine which lies approximately 70 miles northwest of Stewart, British Columbia, at the junction of Bronson Creek with the Iskut River. Prime Resources Group Inc. (49.8% owned by Corona by April 1991) has a 40% interest in the mine while Cominco Ltd. holds the remaining interest and acts as operator.

Construction of a 330 tons per day

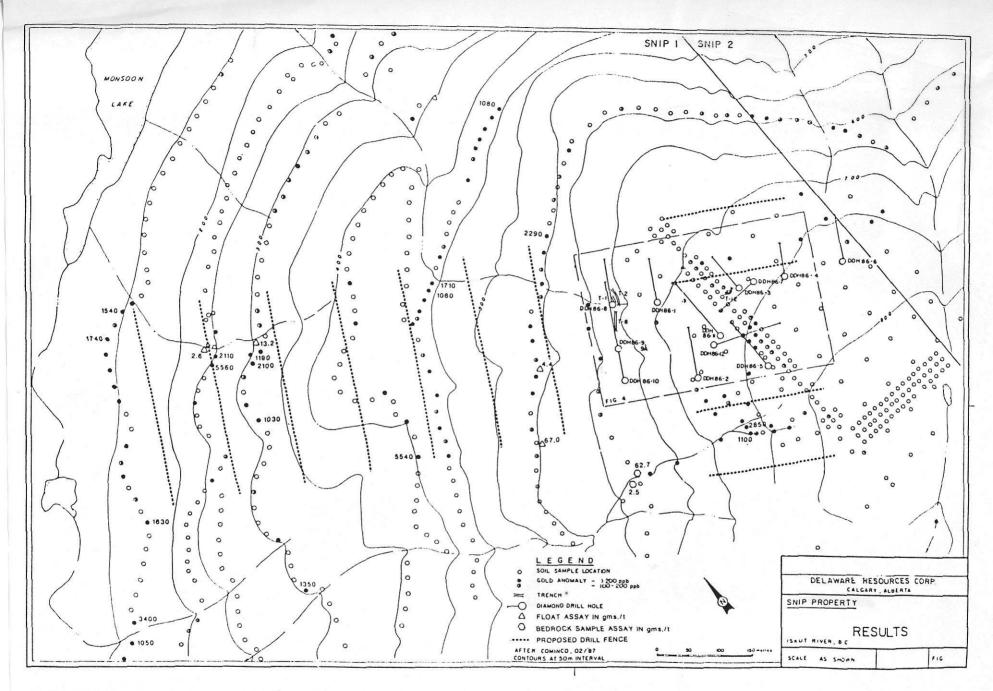
concentrator began in June of 1990 and the underground mine produced its first gold in January 1991.

The mine is developed by two adits on the west face of Johnny Mountain, at the 600-foot and 1,000-foot levels, and by a haulage way, driven from the Iskut River flats to the 400-foot level. Ore is mined using shrinkage stoping and conventional and mechanized cut-and-fill methods.

Production this year is expected to be in the order of 80,000 ounces of gold and 49,000 ounces of silver with direct operating costs of around US\$210 per ounce of







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