THE McKINLEY-DARRAGH-SAVAGE MINES OF COBALT, LIMITED.

ABSTRACT OF GENERAL MANAGER P. A. ROBBINS' REPORT FOR THE YEAR 1909.

[Editor's Note.—Mr. Robbins' report has been so carefully compiled and presents so many facts, not only concerning Cobalt, but also of interest from the mining engineer's standpoint, that we have thought it well worth while to reproduce the greater part of it in these columns.]

		1906	1907	1908	1909	JAN. 1, 1910
McKinley-Darragh, -	-	12673.07	706543.48	653590.38	1235349.37	2638156.30
Savage,		100000		22654.82	62181.52	84836 34
TOTALS, .		2673.07	706543.48	676245.2	1297530.89	2722992.64
		OUNCES	OF SILVER SE	HIPPED.		
		OUNCES 1906	OF SILVER SE	HIPPED.	1909	TOTAL TO
McKinley-Darragh, -					1909	JAN: 1, 1910
McKinley-Darragh, -		1906	1907	1908		TOTAL TO JAN: 1, 1910 2642773.12 76836.34

	EXPENDITUE	LES FOR OPI	ERATIONS.*		
	INSURANCE, TAXES AND MISCELLANEOUS.	LABOR.	SUPPLIES.	TOTALS.	COST PER OUNCE PRODUCED.
Administration and Management				\$32,657.90	\$0.0246
Operations, McKinley-Darragh,	\$6 777.58	\$ 96,322.10	\$48,443.20	151,442.88	0.1143
Operations, Savage,	381.10	28,279.55	13,117.44	41,778.09	0.0322
Prospecting,	A VANIE O	2,719.24	337-53	3,056.77	0.0024
TOTALS,	7158.68	\$127,320.89	\$61,898.17	\$228,935.64	\$0.1735

Under "operations" are included all costs for shaft sinking, timbering, cross-cutting, raising and other development work. If these items were charged as development and included under the head of "Plant," our operating costs would be reduced to approximately \$185,000 and the cost per ounce would be \$0.1426.

MARKETING ORE.

Ounges of Silver Shinned.

						MARKETING COSTS.	PER OUNCE
Consular fees. Insurance, -			•			\$101 40 328.25	\$0.00032
Freight, -					+ -8	12477 10	0 00942
Sampling, -					St	4140.50	0.00335
Smelter Charges,		-		-		53070.50	0 04005
TOTALS			1.	 -	i v	\$70417 75	\$0.05314

Average Value.

No. I Ore	3662.44 ozs. per ton.
Jig Concentrates	2176.04 ozs. per ton.
Sand Concentrates	957.85 ozs. per ton.
Slime Concentrates	294.03 ozs. per ton.
Gross value of silver shipped	\$679,813.06

Gross value per ounce	\$0.513094
Production cost per ounce\$0.173199	
Marketing cost per ounce 0.053149	

Total	cost\$0.226348	
Net	profit per ounce\$0.286746	

Expenditures for plant extensions have amounted to:

						LABOR.	SUPPLIES.	TOTALS
McKinley-Darragh,						\$16183.98	\$30356.31	\$46540.2
Savage, · ·		7.		-		2553.71	2829.87	5383.5
TOTALS,				14	W	\$18737.69	\$33186.18	\$51923.8

Further analyses of costs will be found in the following pages, included in the reports on the respective properties.

Reduction in Costs.

The year 1910 will see our working costs reduced materially. With a cheap source of power available, a larger production of ore from McKinley-Darragh, the Savage emerging from a phase of development to one of steady, profitable production, and a more settled condition of affairs generally, the results are certain to be congratulatory.

Ore Reserves.

Our ore reserves have been increased by the year's work, and in the following reports you will find them estimated as at January 1st:

McKinley-Darragh .	100,000 tons	s carrying 4975000	ozs.
Savage	. 10.300 tons	s carrying 750000	OZD.
Total	.110,300 tons	s carrying 5725000	OZS.

Prospecting.

During the year our prospectors located a number of claims at Gow Ganda and Shining Tree. We have a controlling interest in eleven claims, upon one of which showings of native silver have been found, and upon several others smaltite and cobalt bloom.

mekinley-Dorrogh	Tons	Ounces	Value	Treofment Charges		ofonot paid for	Freight	Regining	Total Debits	net Relurn
nuggels	.673	13.305.60	6,861.26	339.46			9.00		348.46	6,512.8
*1 ore	135:172	494.981.59		1089.27	1.037.46	1319432	1,619.94	2.474.90	19,415.89	233,632.0
Tio conc	178.124	386,149.13	198,561.81	1,424.99	1.677.20	9,928.09	2,232.63	1,930.74	17.193.65	181,3681
Sand "	276.402	264,476.12	135,961.75	2,245.31	426.58	6,798.09	3,450,55	1,322.38	14,242.91	121,718.8
Slime "	235.025	70,212.09	36/7935	1880.24	2.06	1,808,52	3,015.55	351.06	7,05743	29.112.9
miscel	122.002	36,380.84	18.552.26	906.18	3421	1,32856	1,007.33	101.64	3,377.92	15,1743
To 101	947.348	1,265,505.37	649,155.33	7,885.45	3,17751	33,057,58	11,335.00	6,180.72	61 636.26	587,519.0
Savage										
#10re	23.658	51,840.91	26,822.03	189.26	228.71	1341.10	26951	259.45	2288.03	24534.0
Soreenings	65.170	7,512.61	3,835.70	521.37		191.78	872.59	37.56	1.62330	2,212.1
70/01	88.828	59,403.52	30,657.73	710.63	228.71	1,53288	1.142.10	297.01	3,911.33	26,746.
Crond Tolal	1.036:226	1324.908.89	674.813.06	8,596.08	340622	3459046	12.477.10	6.477.73	65,547.59	614,265.

1,324,908.89