

1. "New Talus Showing" - at end of across road diagonal across talus slope on way up to mine levels.
- abundant random quartz veining in folded, foliated black argillite.
 - main quartz vein 1 ft. thick with massive PbS, ZnS and tetrahedrite mineralization.
 - also sig. 'intergrowth' of tetrahedrite with quartz crystals.
 - Main mineralization is steel-grey tetrahedrite Next is typical resinous brown ZnS. Minor coarse grained 'cubed' PbS. Trace pyrite.
 - Boulangerite 'needles' - significant.
- Sa. No. C-26 - 'high-grade'.
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2. 6 Level - end of subdrift
- climb down 150 ft. winze from No. 5 level.
 - Very massive, large (> 10 ft.) vein (plus quartz) of PbS and ZnS (eg. Balmat ZnS)
 - Minor cpy and sig. tetrahedrite ZnS>PbS>tetra>cpy>py
 - Trace pyrite
 - Good 'intergrowth' of quartz crystals with PbS and tetrahedrite
- Sa. No. C-27 - 'high-grade'
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3. 3 Level - 521 Stope.
- Large (50 sq. ft.) open stope - leading down to No. level.
 - high-grade PbS (+ quartz) vein and ZnS and minor tetrahedrite and pyrite.
 - significant quartz crystal intergrowth with PbS and tetrahedrite
 - in places, tetrahedrite is significant.
 - at rhyolite - argillite contact
 - rhyolite has sericite plus veinlets and disseminations of PbS - also minor pyrite.
- Sa. No. C-28 - mineralization (high-grade)
C-29 - mineralized - disseminated and fracture filling in rhyolite.

SAMPLE DESCRIPTIONS + CRONIN MINE - 2 OCTOBER 1974.

4. No. 2 Level - adit about 30 ft. below No. 1 level

- high-grade PbS - ZnS vein. Minor cpy and py.
 - Sig. quartz intergrowth with Pbs
 - Sa. No. C-30 - 'high-grade'.
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5. No. 1 Level - 'New' (1974) Face

- Opened up in Aug. 1974 at end of drift in development.
 - High-grade PbS-ZnS-tetrahedrite vein (> 30 ft. wide).
 - Abundant PbS fracture filling and disseminations in rhyolite also.
 - Sig. PbS and tetrahedrite and pyrite. AnS is minor.
 - Rock shows massive sulphide matrix with fragments of rhyolite in breccia.
 - Abundant wuartz
 - Sog. disseminations of cpy and PbS and py? in fresh medium grey rhyolite.
 - Sig. fracture filling and disseminations PbS and ZnS and py in light grey rhyolite.
 - Sa. No. C-31 - 'High-grade' grab
 - C-32 - mineralization medium grey rhyolite - mainly fine grained disseminations.
 - C-33 - mineralization in light grey rhyolite - fracture filling and disseminated.
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6. No. 3 Level - "In one entrance - out another".

- original old workings
 - massive ZnS and tetrahedrite and PbS in quartz vein.
 - sig. tetra (freibergite)
 - Sa. No. C-34 - 'High-grade' grab
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7. No. 5 Level - No. 1 vein - lowest tunnel entrance.

- Begin in well flt'd argillite (vertical) and then rhyolite.
- Tremendous secondary orange-red zinc coating on walls.
- massive ZnS and tetra and PbS and cpy in quartz vein in rhyolite, 6" wide.
- Sa. No. C-35 - 'High-grade'.

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SAMPLE DESCRIPTION - CRONIN MINE - 2 OCTOBER 1974

8. No. 5 Level 'host' medium grey rhyolite
- disseminated PbS?
Sa. No. C-36 - rhyolite.
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9. No. 5 Level - Bright orange-red zinc secondary coating on walls.
Sa. No. C-37 - X-ray and assay.
C-38 - "Needles" for boulangerite. (X-ray)

October 4, 1974
Tom Schroeter

CRON... MINE PRODUCTION

YEAR	ORE SHIPPED OR TREATED	PRODUCT SHIPPED	GOLD	SILVER	LEAD	ZINC	CADMIUM
	tons		oz.	oz.	lb.	lb.	lb.
1956	4,200	Lead conc., 450 tons Zinc conc., 470 tons	40	46,187	649,765	607,251	7,622
1955							
1954							
1953							
1952							
1951	61	Crude ore from old dump	3	2,009	28,195	35,632	---
1950							
1949							
1948							
1947							
1929		Ore mined: 30 tons		673	13,013	14,550	
1917		Ore mined: 79 tons		4,257	57,462		

C R O N I N M I N E P R O D U C T I O N

YEAR	ORE SHIPPED OR TREATED	PRODUCT SHIPPED	GOLD	SILVER	LEAD	ZINC	CADMIUM
	tons		oz.	oz.	lb.	lb.	lb.
1972	700	Lead conc., 76 tons Zinc conc., 82 tons	10	8,865	99,089	105,034	1,228
1971	216	Lead conc., 91 tons Zinc conc., 125 tons	14	11,731	108,431	159,441	1,885
1970	1,746	Lead conc., 87 tons Zinc conc., 104 tons	27	11,800	111,351	117,382	1,432
1969	300	Lead conc., 24 tons Zinc conc., 28 tons	2	2,485	30,570	34,346	341
1968							
1967	750	Lead conc., 56 tons Zinc conc., 84 tons	6	4,675	74,064	104,770	1,091
1966	1,000	Lead conc., 91 tons Zinc conc., 137 tons	7	10,045	110,926	177,243	2,293
1965	775	Lead conc., 109 tons Zinc conc., 152 tons	5	12,214	139,933	196,140	2,572
1964	500	Lead conc., 45 tons Zinc conc., 79 tons	8	5,473	60,957	91,696	1,049
1963	362	Lead conc., 27 tons Zinc conc., 36 tons	7	3,498	30,946	41,468	562
1962		Not Operational					
1961	1,212	Lead conc., 80 tons Zinc conc., 93 tons	14	11,572	116,673	106,542	1,377
1960	1,015	Lead conc., 79 tons Zinc conc., 66 tons	16	9,054	91,720	76,002	948
1959	1,000	Lead conc., 82 tons Zinc conc., 66 tons	11	9,716	108,055	81,374	969
1958	123	Crude ore, 123 tons Lead conc., 9 tons	6	6,169	70,481	68,143	---
1957	5,917	Lead conc., 445 tons Zinc conc., 742 tons	63	66,625	698,941	848,354	10,782 *

* Copper: 10,840 lb.

DEVELOPMENT AND PRODUCTION AT CRONIN MINE 1951 - 1974

1948 - 1952 - Operated by Cronin Babine Mines Ltd.

1952 - 1953 - Leased to and operated by New Cronin Babine Mines Ltd.

Price - \$250,000 out of 10% net smelter returns.

1956 - 1959 - Paul Kindrat operated under lease as a high-grade operation from Babine Bonanza for 20% net smelter.

1960 - 1968 - Kindrat operated from New Cronin in consideration for development work and a percentage of smelter returns.

1969 - 1972 - Kindrat operated under option to purchase mill and property dated 18 August 1969 from New Cronin Babine Mines Ltd. Terms were \$90,000 with 15% guaranteed minimum from smelter returns. New Cronin has 5% override on all future net smelter returns.

1972 - present - Bought by Hallmark Resources.

- Development and production.

PAST PRODUCTION AND DEVELOPMENT

- about 4500 ft. development work.

<u>LEVELS</u>	<u>FEET</u>
# 6	200
# 5	1600
# 3	2000
# 2	300
# 1	300

DRILLING - Underground

928'	-	1964	
1007' (4)	-	1963	
1355 (11)	-	1948	(at 5000' level)
Surface			
1290 (5)	-	1948	

* For production figures - see accompanying list.

October, 1974
Tom Schroeter