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GEOLOGICAL REPORT

ON THE
ROSSLAND PROJECT

N.T.S. 82F/S.W.

for
KERR ADDISON MINES LTD.

and
MINNOVA INC.

by:
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INTRODUCTION:

During the 1988 summer field season, Kerr Addison Mines Ltd. carried out a regional evaluation of the Rossland volcanic belt. The project was initiated to develop a better understanding of factors related to gold-silver-copper vein-type mineralization in Rossland Group rocks.

The Rossland Group has been a major producer of precious metals, with over 84,000 kg. of gold and 105,000 kg. of silver recovered from the Rossland camp, ranking it second in the province in gold production. Exploration continues to be active in the camp and throughout the length of exposures of Rossland Group rocks, particularly with the recent discovery of significant gold mineralization at the Willa property in a roof pendant within the Nelson batholith.

REGIONAL GEOLOGY:

The Rossland Group is exposed in a broad arcuate belt in southeastern British Columbia, bounded to the east, north and west by granitic rocks of the lower Cretaceous Nelson batholith, and in fault contact with lower Paleozoic rocks of the Kootenay arc on the south (Figure 1-1-1). It is intruded by numerous small, irregular stocks, probably correlative with the Nelson batholith (Little, 1964), by apophyses of the Nelson batholith and, in the south near the town of Rossland, by Coryell alkalic intrusions of Eocene age.

The Rossland Group is subdivided into a lower, generally highly deformed sequence of predominantly fine-grained clastic rocks of the Ymir Group and Archibald Formation, a thick accumulation of pyroclastic and epiclastic volcanic rocks of the Elise Formation, and overlying, generally less intensely deformed clastic rocks of the Hall Formation (Table 1-1-1). The age of the Elise Formation is bracketed by Sinemurian macrofossils in the Archibald Formation and Toarcian fossils in the overlying Hall Formation; no fossils have been found in the Ymir Group.

A variety of gold, silver, copper, lead and zinc vein deposits as well as molbydenite deposits occurs within the Rossland Group or in intrusions cutting these rocks. These deposits are concentrated in the more northern exposures southwest of Nelson (Mulligan, 1952; Little, 1982), east and northeast of Ymir (Cockfield, 1936; McAllister, 1951), and in the Rossland camp itself (Fyles, 1984).

1988 WORK PROGRAM:

The main focus of the Rossland project was the acquisition or optioning of mineral claims within the Rossland volcanic belt having a high potential for economic development.

Of primary importance was the group of mineral claims located south of Rossland, held by Inland Au-Ag Resources Ltd. Exploration work was carried out on these claims on a discontinuous basis during June to September, 1988. Work consisted of locating, mapping and sampling previously known old workings (shafts, adits, trenches, pit). In addition, backhoe trenching and a small geochemical soil survey were carried out over the Tigre claims on a discontinuous basis in an area of high gold assay values associated with massive magnetite, pyrite, arsenopyrite and pyrrhotite.

Minor trenching was also carried out on the Cam 2 and Nobus mineral showings on the east side of the Inland claim group.

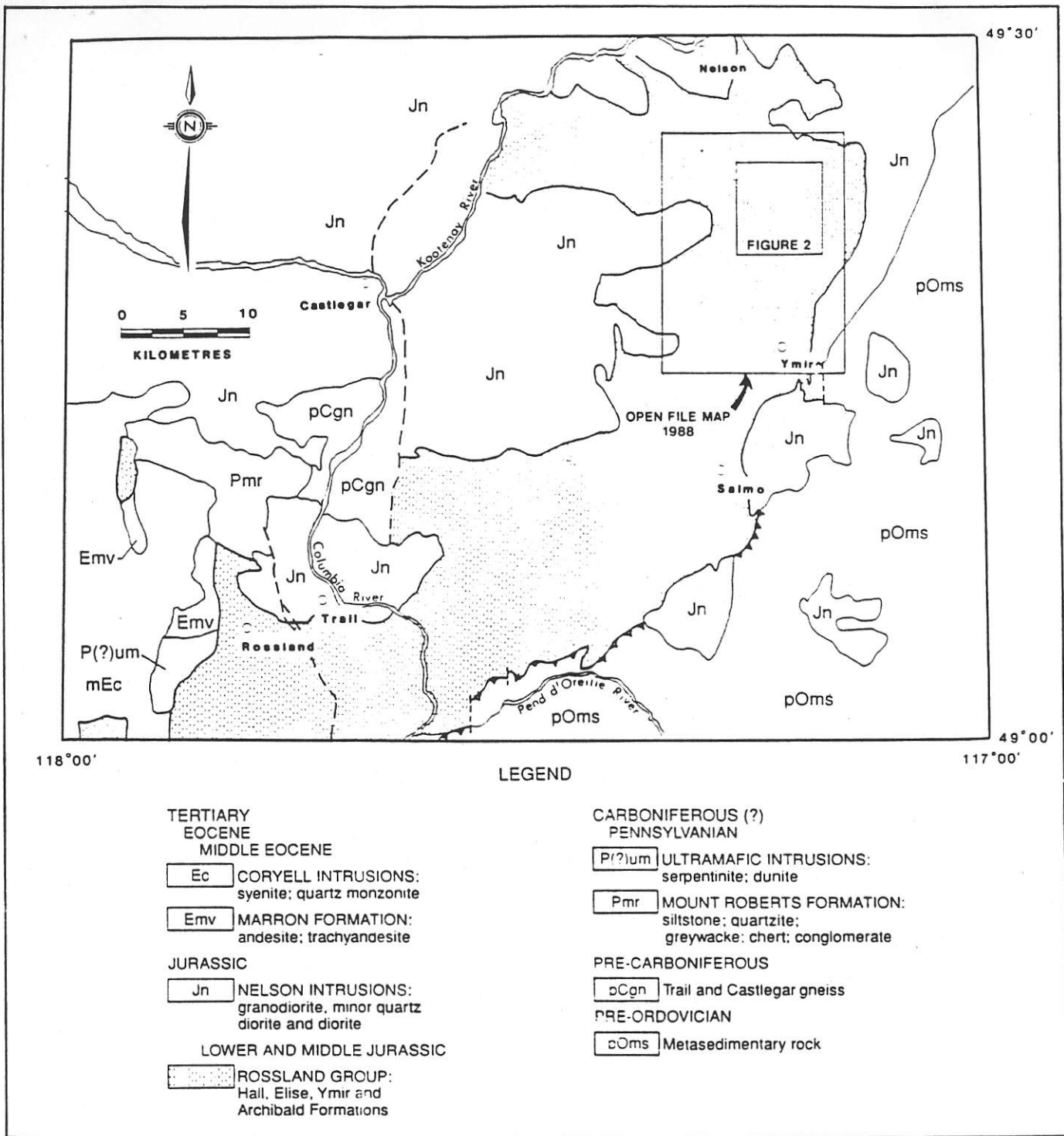


Figure 1-1-1. Map showing distribution of Rossland Group in southeastern British Columbia and location of Figure 1-1-2 and Open File map. Regional geology after Little (1960, 1964, 1982), Fyles (1984), Simony (1979), Corbett and Simony (1984), and Parrish (1984).

1988 WORK PROGRAM - cont'd

The exploration program on the Inland claims was rather limited as a result of the legal claim boundary disputes between Inland and Antelope Resources Ltd. of Rossland.

The most important group of claims held by Inland is the Air Supplemental Group, which contains the Tigre, Cam 2, and Nobus claims. In total the Air Supplemental group consists of 54 units made up of 5 M.G.S. claims, 4 two post claims and 4 reverted crown grant claims.

Field work on the Air Supplemental claims occupied approximately 32 days. For a more complete description of the Air Supplemental claim group, the reader is referred to the 1988 Assessment report prepared by Kerr Addison Mines Ltd. on behalf of Inland Au-Ag Resources Ltd.

A second area of investigation was a group of eight reverted crown grants located immediately north of the city of Rossland on Monte Cristo Mountain. These claims are owned by Mr. M. Delich of Rossland and consist of the Silverine, Georgia, Iron Colt, Buckeye, Pott, Caledonia, Viking and Elanore claims.

Approximately two weeks were spent investigating and sampling the various old workings on this property with the intention of optioning the claim group from Mr. Delich. These investigations were carried out intermittently during June and July, 1988. Kerr Addison's option agreement was refused by Mr. Delich, who accepted a higher offer by Bryndon Ventures Ltd. (closely associated with Antelope Resources Ltd.).

The claim group lies in a very favorable geologic environment (North Belt) to host economic gold-silver-copper deposits, possibly related to the main Rossland ore deposits. Minor production (mainly gold-silver) has taken place on the Georgia, Silverine and Iron Colt claims. Exploration work by Kerr Addison concentrated on the Georgia claim as was done by the previous operator, Gallant Gold Mines Ltd. (1984-1986).

Fifty-four rock samples were assayed for gold and silver (and 32 element I.C.P. analysis) from the Monte Cristo mineral claims.

1988 WORK PROGRAM - cont'd

A third area of major investigation was the geological reconnaissance of the Stewart property by Kerr Addison staff over a two week period in October, 1988. The Stewart property was optioned by Kerr Addison and subsequently Minnova Inc. The property lies within a favorable geologic environment for precious mineralization, underlain by Rosslund volcanics, Hall sediments and several phases and types of intrusive bodies. Several mineral occurrences are found throughout the property including reserves of 204,000 tonnes grading 0.37% MoS₂ within the Phase II breccia zone. Potential exists for additional gold reserves to be found in the Gold Hill area at the southwest corner of the property. The Gold Hill area lies about 2 km north of the old Arlington mine (Au, Ag, Pb, Zn) now under production by Dragon Resources Ltd.

Work on the Stewart property during 1988 consisted of rock sampling in areas of known and suggested mineralization as well as a comprehensive stream sediment pan concentrate sampling program. Several very high gold assay results were obtained from the stream sampling survey. (See Geological Sampling Report on the Stewart Claim Group - 1988).

CONCLUSIONS AND RECOMMENDATIONS

Numerous areas of economic potential occur within the Rosslund volcanic belt. The main focus for future exploration activities should be in the immediate Rosslund area. Two areas of primary interest are the 'South Belt' mineral claims held by Inland Au-Ag Resources Ltd. and the Velvet Mine claims also held by Inland.

Both areas have a long history of development related to strong gold-copper-silver mineralization. The exploration and development work carried out in the Rosslund area suggest excellent possibilities for the discovery of additional ore reserves, particularly at depths uninvestigated by previous work.

CONCLUSIONS AND RECOMMENDATIONS - cont'd

A third area in the Rossland area and also held by Inland is the Commander (ARR Claims) mineral showing. This is an old occurrence hosted in Rossland monzonites with coarse and fine grained pyrite, pyrrhotite and chalcopyrite. Little outcrop occurs at this location and all old workings are obscured. Assaying of dump rock samples at the Commander site produced economic grades of gold, copper, silver and tungsten. There are also anomalous results for cobalt, molybdenum and zinc. (See assay nos. 330138H to 330140H). As little is known of the Commander showing, exploration work is highly recommended for this area.

Several other economically interesting areas occur throughout the Rossland volcanic belt and are worthy of future investigation. As most mineral property visitations consisted of cursory examinations and sampling, no specific recommendations can be made at this time.

A major portion of the Rossland project was devoted to the examination and sampling of numerous mineral properties throughout the Rossland volcanic belt. Within the volcanic belt are concentrations of mineral showings both around the Rossland and Nelson areas. It was in these two areas that the majority of mineral property examinations took place.

Summary tables are included in the appendix which outlines some basic information about mineral showings that were examined. These tables do not include information on the Inland-Air Supplemental claim group, Monte Cristo mineral claims or the Stewart property.

Also included in the appendix are all assay results for all rock samples taken in the Rossland-Nelson area with the exception of results for the Stewart property and the Tigre claim geochemical soil survey.

REFERENCES

- Brock, R.W. (1906): Preliminary Report on the Rossland, British Columbia Mining District, Geol. Surv., Canada, Summ. Rept., 1906.
- Bruce, E.L., (1917): Geology and Ore Deposits of Rossland, British Columbia, B.C. Ministry of Energy, Mines & Pet. Res., Bull 4 (old series).
- C.I.M., Operations of Red Mountain Mines Ltd., Mine Staff, Bull., Vol. 60, No. 663, pp. 807-814, July, 1987.
- Daly, R.A. (1912): Geology of the North American Cordillera at the Forty-Ninth Parallel, Geol. Surv., Canada, Mem. 38.
- Drysdale, C.W., (1915): Geology and Ore Deposits of Rossland, British Columbia, Geol. Surv., Canada, Mem. 77.
- Eastwood, G.E.P., (1966): Ministry of Mines, B.C., Ann. Rept., 1966 pp. 200-207.
- Fyles, J.T. (1967): Minister of Mines, B.C., Ann. Rept., 1967, pp.236-238.
- _____ (1970: Preliminary Map of the Rossland Area, B.C. Ministry of Energy, Mines & Pet. Res., Prelim. Map No. 4.
- Fyles, J.T., Harakal, J.E. and White, W.H. (1973): The Age of Sulfide Mineralization at Rossland, British Columbia, Econ. Geol., Vol. 68, pp. 23-33.
- Fyles, J.T. and Hewlett, C.G. (1954): Stratigraphy and Structure of the Salmo Lead-Zinc Area, B.C. Ministry of Energy, Mines & Pet. Res., Bull. 41, pp. 44-46.
- Gilbert, G. (1941): Rossland Properties, Geological Report No. 1, Cominco Ltd., unpub. company rept.
- _____ (1948): Rossland Camp, in Structural Geology of Canadian Ore Deposits (Jubilee Vo.), C.I.M., pp. 189-196.
- Gilbert, G. and Malcolm, D.C. (1942): Rossland Properties, Geological Report No. 2, Cominco Ltd., unpub. company rept.
- Holland, Stuart S. (1965): Minister of Mines, B.C., Ann. Rept., 1965, pp. 174-178.
- Little, H.W. (1960): Nelson Map-Area, West Half, British Columbia, Geol. Surv., Canada, Mem. 308.
- _____ (1962): Trail Map-Area, British Columbia, Geol. Surv., Canada, Paper 62-5.
- _____ (1963): Rossland Map-Area, British Columbia, Geol. Surv. Canada, Paper 63-13 (Map 23-1963).
- _____ (1982): Geology of the Rossland-Trail Map-Area, British Columbia, Geol. Surv., Canada, Paper 79-26.
- Mathews, W.H. (1953): Geology of the Sheep Creek Camp, B.C. Ministry of Energy, Mines & Pet. Res., Bull. 31, pp. 31-35.
- _____ (1963): Thirteen Potassium-Argon Dates of Cenozoic Volcanic Rocks from British Columbia, University of British Columbia, Geology Rept. 2.
- Monger, J.W.H. (1968): Early Tertiary Stratified Rocks, Greenwood Map-Area, Geol. Surv., Canada, Paper 67-42.

REFERENCES - cont'd

- Parks, W.A. (1917): Building and Ornamental Stones of Canada, Canada Dept. of Mines, No. 452, Vol. V.
- Simony, P.S. (1979): Pre-Carboniferous Basement near Trail, British Columbia, Cdn. Jour. Earth Sci. Vol. 16, No. 1, pp 1-11.
- Stephens, F.H., Hainsworth, W.G., and Lorimer, M.K. (1966): Red Mountain Mines, Western Miner, June, pp. 47-63.
- Stevenson, J.S. (1935): Rossland Camp, Minister of Mines, B.C., Ann. Rept., 1935, pp. E4-E11.
- _____ (1943): Tungsten Deposits of British Columbia, B.C. Ministry of Energy, Mines & Pet. Res., Bull. 10.
- Telfer, L. (1975): Rossland Trails, Cominco Ltd.
- Thorpe, R.I. (1967): Mineralogy and Zoning of the Rossland Area, unpublished Ph.D. thesis, University of Wisconsin.
- Thorpe, R.I. and Little, H.W. (1973): Discussion, The Age of Sulfide Mineralization at Rossland, Econ. Geol., Vol. 68, pp. 1337-1346.
- Walker, J.F. (1934): Geology and Mineral Deposits of the Salmo Map Area, Geol. Surv., Canada, Mem. 172.
- White, W.H., (1949): Rossland South Belt, Minister of Mines, B.C., Ann. Rept., 1949, pp. 150-163.
- Yates, R.G. and Engels, J.C. (1968): Potassium-Argon Ages of Some Igneous Rocks in Northern Stevens County, Washington, U.S.G.S., Prof. Paper 600-D, pp. D242-D247.

VELVET MINE REFERENCES

Geological Survey of Canada Memoir 77.

Geological Survey of Canada Memoir 308

Rayrock Mines Ltd.'s Geological Plan Map and Vertical Sections
on the Velvet Mine. 1965

Rayrock Mines Ltd. drill hole logs. 1966

Rayrock Mines Ltd. field reports to Mr. J.C. Byre, President from
Mr. T. Antoniuk, Field Geologist. Jan-March, 1966.

Alrae Exploration Ltd. diamond drill records. Feb-March, 1967.

Appraisal Report on the Velvet Mine by J.P. Ewell, P.Eng., May 2,
1978.

Memorandum on the Velvet Mine to Walter E. Clarke from Wm. Dollery-
Pardy. May 9, 1966.

Report on the Velvet Operation by Henry L. Hill & Associates. April
16, 1957.

Report on the Velvet Mine for Velvet Exploration Ltd. by J.O. Rud,
Nov. 1981.

Geophysical Report on a Magnetometer and a V.L.F.-E.M. Survey for
Velvet Explorations Ltd., Dec. 1981.

APPENDIX I

ROCK SAMPLING SUMMARY TABLES

ROCK SAMPLING SUMMARY

<u>AREA</u>	<u>NAME</u>	<u>OWNER</u>	<u>COMMODITY</u>	<u>ASSAY NO.</u>	<u>DATE VISITED</u>
<u>ROSSLAND</u>					
Near U.S. Border	VELVET MINE	Inland	Cu, Au, Ag, W.		May 26, July 31
South Belt	CROWN POINT MINE	Cominco	Au, Cu, Ag.	330459H, 330060H 330061H 330142H 330143H	June 10, July 19
South Belt	DEER PARK MINE	Cominco	Fe, Cu, Au, Mo.	330107H 330108H	Aug. 1
North Belt	COMMANDER (ARR CLAIMS)	Inland	Au, Cu, Ag, W.	330138H 330139H 330140H	Sept. 1
Blackjack Mtn.	UNION CROWN GRANT	M. Persson	Pb, Zn, Au, Ag.	330490H 330491H	June 23, Oct. 2
U.S. Border	SUNSET CROWN GRANT	Sulphurets Gold Corp.	Ag, Pb, Zn	330112H	Aug. 9
South Belt	CHARLESTON GROUP	D.K. Bragg		330480H 330481H	June 21
South Belt	BEAVER CLAIM	G. Langset		330045H to 330050H	July 18
Red Mtn.	COXEY CLAIM GIANT CLAIM	Cominco "	Mo, Cu, Ag, Cu, Zn, Co, Ni, Mo.		August 9
D.K. Mtn.	I.X.L. MINE	R. Leighton	Au(native)	330492H (float)	June 26
D.K. Mtn.	MIDNIGHT MINE	A. Matovich	Au(native) Cu, Pb.	330051H, 330052H 330141H	July 11
D.K. Mtn.	SNOWDROP MINE	G. Crowe	Au(native)	330151H	Sept. 21
D.K. Mtn.	ATLANTIC CABLE	M. Delich	Ag, Pb, Au.	330159H 330160H 330161H 330162H-possible Caribou Claim	Sept. 25
Trail/Fruitvale	ROSSLAND-BEAR	W. Howard		330109H-330111H	July 26

ROCK SAMPLING SUMMARY

<u>AREA</u>	<u>NAME</u>	<u>OWNER</u>	<u>COMMODITY</u>	<u>ASSAY NO.</u>	<u>DATE VISITED</u>
1. <u>NELSON</u> Giveout Creek	STAR, EUREKA	Lectus Development	Au, Ag, Cu, Pb, Sb.	330058H (STAR) 330059H (EUREKA)	July 13
22km N. of Nelson	ALPINE	Cove Resources	Au	330056H 330057H	July 10
49 Creek	GOLD HILL	Goldeneye Minerals	Au, Ag, Cu.	330148H	Sept. 8
Red and Copper Mtns.	GOLDEN EAGLE		Au, Pb, Zn, Ag.	330149H (Quartz vein between Red and Copper Mtns.)	Sept. 8
Rover-Snowwater	WHITewater	Snow-water Resources	Au, Ag.		Sept. 30
8km W. of Nelson	KENVILLE MINE	Algoma Gold	Au.		August 21
2. <u>NELSON-SALMO</u> Hellroaring Ck.	KATIE	BaloiL-Lassiter Oil	High Cu Soil Anomaly	330009H to 330011H	June 28
Porcupine Ck.	SHAWN	Golden Exodus Ventures Ltd.	Au	330063H to 330067H	July 24
Hall Ck. Barret Ck.			Reconnaissance	330147H	Sept. 12
3. <u>SLOCAN</u> Retallack	WHITewater MINE	P. Leontowicz	Ag, Pb, An, Au, (Cu)	330117H-330121H 330134H-330137H	August 12, 18 Sept. 3
New Denver Silverton	LEMEX ENTERPRISE CK.	BaloiL-Lassiter Oil	Mo, W	330054H 330055H	July 13 "
Silverton	WILLA	Northair	Au, Cu.		July 12
4. <u>CRESTON</u> Kamma Ck.			2500ppb Au in concentrate (1987)	330152H-330155H (pan concentrate) 330156H-330158H (Rock)	Sept. 22

APPENDIX II

ANALYSES OF ROCK SAMPLING

NOTE: Geochem. analyses could be conveniently grouped as follows:

A. Rossland (Inland-South Belt Claims)

330456H	330018H	330075H?
330457H	330019H	330076H?
330458H	330020H	330078H
330459H	330021H	
330460H	330022H	330127H
330461H	330023H	330128H
330462H	330024H	330129H
330463H	330025H	330130H
330464H	330026H	330131H
330470H	330027H	330132H
330471H	330028H	330133H
330472H	330029H	330138H
330473H	330030H	330139H
330474H	330031H	330140H
330475H	330032H	330144H
330476H	330033H	330145H
330477H	330034H	330146H
330489H	330035H	330150H
330493H	330036H	
330494H	330037H	330113H
330495H	330038H	330114H
330496H	330039H	
330497H	330040H	
330498H	330041H	
330499H	330042H	
330500H	330043H	
	330044H	
330011H	330062H	
330012H	330068H	
330013H	330069H	
330014H	330070H?	
330015H	330071H?	
330016H	330073H?	
330017H	330074H?	

(?) denotes samples taken on indeterminate claim boundaries which may be part of other ownership.

B. Rossland (Monte Cristo Claims)

330451H	330095H
330452H	330096H
330453H	330097H
330454H	330098H
330455H	330099H
330465H	330100H
330466H	330101H
330467H	330102H
330468H	330103H
330469H	330104H
330478H	330105H
330479H	330106H
330482H	
330483H	
330484H	
330485H	
330486H	
330487H	
330488H	
330488H	
330002H	
330003H	
330004H	
330005H	
330006H	
330007H	
330008H	
330079H	
330080H	
330081H	
330082H	
330083H	
330084H	
330085H	
330086H	
330087H	
330088H	
330089H	
330090H	
330091H	
330092H	
330093H	
330094H	

C. Rossland (General), Nelson, Other Areas

330480H	330063H	330155H
330481H	330064H	330156H
330490H	330065H	330157H
330491H	330066H	330158H
330492H	330067H	330159H
		330160H
330009H	330112H	330161H
330010H	330115H?	330162H
330011H	330116H?	330163H
330045H		
330046H	330117H	
330047H	330118H	
330048H	330119H	
330049H	330120H	
330050H	330121H	
330051H	330133H	
330052H	330134H	
330053H	330135H	
330054H	330136H	
330055H	330137H	
330056H	330141H	
330057H	330142H?	
330058H	330143H?	
330059H		
330060H	330147H	
330061H	330148H	
330072H	330149H	
330077H		
330107H	330151H	
330108H		
330109H	330152H	
330110H	330153H	
330111H	330154H	

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

ROSSLAND PROJECT - ROCK SAMPLING
 MONTE-CRISTO NORTH AND CENTRAL BELTS

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330451H	88 R 01	<u>Iron Colt Claim</u> Grab from dump - siliceous andesite, pyrrhotite, minor pyrite and calcite, very oxidized.
330452H	88 R 02	Grab from dump - quartz (vein materials) massive pyrrhotite, chalcopyrite, minor pyrite, very oxidized-rusty.
330453H	88 R 03	<u>Monte Cristo Claim</u> Grab - massive pyrrhotite, pyrite and chalcopyrite, very oxidized. The main mineralized vein structure can be followed uphill from road on a bearing of 120° - striking for ~200m.
330454H	88 R 04	Grab from dump - massive pyrrhotite and chalcopyrite, very oxidized.
330455H	88 R 05	Near top of hill (Monte Cristo claim). Grab from trench - massive pyrrhotite and chalcopyrite hosted in monzonite, very oxidized. Buckeye/Silverine claims Workings above road close to micro-wave station.
330465H	88 R 15	Grab from siliceous shear zone 90°/40°N hosted in augite porphyry - contains disseminated arsenopyrite, surface oxidized.
330466H	88 R 16	Grab on same vein system as 88 R 15 90°/40°N - quartz hosted in augite porphyry hosting massive arsenopyrite, limonite - oxidized rusty staining. Vein, shear appears to pinch to the south.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
		Following ~N.W. uphill Deep shaft ~5.0m deep Shear ~0.2m wide in shaft E-W striking/dipping north.
330467H	88 R 17	Composite grab sample of workings around shaft - siliceous vein material - massive to disseminated sulfides-chalcopyrite and pyrrhotite, heavily oxidized.
330468H	88 R 18	Wide vein ~1.5m vein on Buckeye claim just above bank off road. Vein E-W/90°, hosted in monzonite - containing arsenopyrite, pyrrhotite, minor chalcopyrite, heavily oxidized.
330469H	88 R 19	<u>Georgia Claim</u> Deep shaft - related to Georgia adit, grab - disseminated sulfides - pyrrhotite, chalcopyrite, heavily oxidized - hosted in silicified sediments. Shaft contains an E-W striking shear dipping 60°S. Elanore claim - by M. Delich' directions probably not the Elanore claim but Monte Cristo claim.
330478H	88 R 28	Grab from vein 80°/dipping steeply N., contains disseminated sulfides - mostly pyrrhotite and pyrite, hosted in monzonite, oxidized - very weathered.
330479H	88 R 29	From caved adit-pit Gouge Zone Chip across 2.0m - containing massive pyrite hosted in monzonite, heavily oxidized. * zone E-W strike/northerly dip structure appears to narrow at surface and widen at depth.

Monte-Cristo - North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330482H	88 R 32	<u>Georgia Claim</u> Sample from wall outside Georgia No. 3 Adit. Silicified sediments containing disseminated chalcopyrite, pyrite and arsenopyrite, heavily oxidized.
330483H	88 R 33	<u>Iron Colt Claim</u> Grab from pit on dump workings, silicified sediments - contains massive pyrrhotite, pyrite and chalcopyrite - heavily oxidized.
330484H	88 R 34	<u>Iron Colt Claim</u> Grab from dump. Silicified sediments with some alteration to clay (kaolinite) disseminated chalcopyrite ~1-2%, surface oxidized.
330485H	88 R 35	From small outcrop east of trenches, vein 340°/70°W 0.1m across quartz containing disseminated arsenopyrite, slightly oxidized. <u>Georgia Claim</u> Several pits and trenches are located ~100m S.W. of Mining school road turnoff.
330486H	88R 36	Quartz vein 34°/60°W hosted in silicified sediments containing finely disseminated arsenopyrite.
330487H	88 R 37	Grab from dump - massive chalcopyrite and pyrrhotite. 20m N.E. of pits is a long narrow trench - very old - mostly overgrown
330488H	88 R 38	contains a silicified zone, silicified oxidized zone - thickness? contains pyrite and arsenopyrite.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
		<u>Georgia Claim</u>
330002H	88 R 52	(as Galant sample 47183) Chip across 1.5m vein of massive pyrrhotite and chalcopryrite (360°/80°E), very oxidized, hosted in sediments.
330003H	88 R 53	North 30m of 88 R 52 Old shaft containing shear zone (vein) width 0.3m of massive pyrrhotite and chalcopryrite - zone contains fault gouge - appears to thin at depth. Hosted in sediments.
330004H	88 R 54	Grab sample (along road south of Georgia No. 2 Adit), silicified sediments containing disseminated chalcopryrite and arsenopyrite - surface oxidized.
33005H	88 R 55	(Pit 20m west above road from 88 R 54) Contains a small pod of sulfides including arsenopyrite and pyrrhotite hosted in sediments - surface very oxidized.
330006H	88 R 56	(Same pit as 88 R 55) a small silicified vein containing disseminated arsenopyrite and pyrrhotite host sediments, very fractured up - attitude of vein?
330007H	88 R 57	(SW of Pit 88 R 56) (47181 Galant) grab from dump of shaft containing massive pyrrhotite and chalcopryrite hosted in silicified sediments.
330008H	88 R 58	(On road 20m south of 88 R 54) Small vein 10°/58°E 0.1m wide shear containing graphite, arsenopyrite, chalcopryrite in fractured silicified sediments - oxidized surface with abundant limonite.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330079H	88 R 111	<u>Pott Claim/Evening Star Claim</u> (as Galant 47179) Vein 340°/90° chip across 2.0m containing disseminated pyrrhotite, chalcopyrite and arsenopyrite, very oxidized, hosted in siliceous sediments.
330080H	88 R 112	15m south Vein 320°/90° chip across 2.0m containing disseminated pyrrhotite, chalcopyrite and arsenopyrite, very oxidized, hosted in siliceous sediments.
330081H	88 R 113	40m-50m north Pit ~6m deep, water filled. grab from workings - silicified sediments containing arsenopyrite and chalcopyrite, very oxidized.
330082H	88 R 119	50m N.W. of 88 R 113 Silicified sediments, chip across mineralized zone. 0.20m contains disseminated arsenopyrite.
330083H	88 R 115	<u>(As Galant 47140) Georgia Claim</u> Silicified sediments containing a mineralized zone of fine disseminated arsenopyrite 1.0-1.5m wide, highly oxidized.
330084H	88 R 116	<u>Georgia Claim</u> Sample from Georgia No. 3 Adit. Small quartz veins in silicified sediments containing pyrrhotite and chalcopyrite.
330085H	88 R 117	<u>Buckeye Claim</u> Buckeye adit. Narrow quartz vein 0.15-0.2m wide containing chalcopyrite and malachite staining - vein flat lying ~20°, hosted in green volcanics.

Monte-Cristo North and Central Belts

<u>CHEMEX</u> <u>NO.</u>	<u>FIELD</u> <u>NO.</u>	
330086H	88 R 118	<u>Georgia Claim</u> (15m N.W. of deep shaft 88 R 19) grab from dump of old trench, contains massive to disseminated arsenopyrite and chalcopyrite, surface slightly oxidized.
330087H	88 R 119	Trench above No. 1 Georgia Adit. silicified sediments hosting vein 50°/50°N.W., chip across 0.6m, massive pyrrhotite with arsenopyrite, very oxidized.
330088H	88 R 120	Pit 20m (west) above 88 R 119. silicified sediments hosting vein 50°/90°, chip across 0.3m, contains massive to disseminated, surface oxidized.
330089H	88 R 121	Shaft as 88 R 57, chip across shear zone 1.5m wide, hosted in siliceous sediments 50°/90°, very finely disseminated sulfides, very heavily oxidized. Sample across entrance of Georgia No. 1 Adit.
330089H	88 R 122	Chip across 2.0m mineralized vein-attitude? quartz in places, chalcopyrite, arsenopyrite, pyrrhotite, surface oxidized. Along road south-east of Georgia Adit No. 2.
330091H	88 R 123	Silicified sediments containing mineralization, across 1.5m - disseminated chalcopyrite, arsenopyrite and pyrite.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330092H	88 R 124	(As 88 R 54) Sample across 1.0m of silicified sediments containing disseminated chalcopyrite, arsenopyrite and pyrite.
330093H	88 R 125	(As Galant 47172) South Georgia Claim Grab from trench workings, very siliceous, hosted in a diorite, containing massive chalcopyrite, arsenopyrite and pyrrhotite.
330094H	88 R 126	(As Galant 47171) Silicified shear zone 10°/78°W, 0.3m wide, hosted in a diorite, containing disseminated arsenopyrite - weathered and oxidized.
330095H	88 R 127	(As Galant 47173) Shear zone 50°/60°N.W., massive pyrrhotite vein 0.3m wide hosted in a monzonite, very oxidized.
330096H	88 R 128	(Next pit south 5m from 88 R 127) Shear zone 60°/70°N.W., containing pyrite, hosted in a monzonite, very oxidized.
<u>Georgia Claim (East)</u>		
330097H	88 R 129	(As Galant 47177). Vein - silicified zone 160°/19°W, massive pyrrhotite with minor chalcopyrite - hosted in a green-grey volcanic (andesite).
<u>Buckeye Claim</u>		
Wide vein above road - As 88 R 18		
330098H	88 R 130	Chip sample across 1.0m - very silicified vein hosted in monzonite - contains massive to disseminated chalcopyrite, arsenopyrite, minor pyrrhotite - surface oxidized.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
		In Georgia Adit No. 3.
330099H	88 R 131	Silicified shear-vein 324°/60°W, chip across 0.75m - bounded by mafic (fine gr.) dyke containing pyrrhotite and minor chalcopyrite, oxidized, rusty surface.
330100H	88 R 132	At entrance of Georgia Adit No. 3. Sample in shear zone (silicified) in silicified sediments - contains disseminated pyrrhotite with minor chalcopyrite.
330101H	88 R 133	<u>Georgia Claim</u>
330102H	88 R 134	As 88 R 118 - old trench Siliceous mineralized zone (quartz vein?), over 1.0m of massive to disseminated arsenopyrite and chalcopyrite - very oxidized coating on surface.
		<u>Silverine Claim</u>
330103H	88 R 135	L6+00N 0+95W (new grid) Grab sample in small trench 2.5m deep, siliceous siltstone containing disseminated pyrrhotite, surface slightly rusty.
		<u>Elanore Claim</u>
330104H	88 R 136	L4+00NE 9+00NW (old grid) Silicified sediments in old pit containing disseminated arsenopyrite and chalcopyrite, slightly oxidized on surface.
330105H	88 R 137	(As Galant 47294) Grab from dump (quartz vein) - hosted in granodiorite - both the quartz and granodiorite contain disseminated pyrite.

Monte-Cristo North and Central Belts

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330106H	88 R 138	(As Galant 47296) from dump - silicified sediments with quartz veinlets, contains minor sphalerite (very little mineralization in this area).
	88 R 153	Grab from dump - Commander Claim Green-grey andesite containing pyrrhotite, pyrite, chalcopyrite and malachite staining, surface oxidized, rusty.
	88 R 154	Grab from dump - as above.
	88 R 155	Grab from dump - Commander Claim Monzonite hosting massive pyrite with minor amounts of chalcopyrite and pyrrhotite.

ROSSLAND PROJECT - ROCK SAMPLING

OTHER CLAIMS

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
		<u>Union Claim - Blackjack Mtn.</u>
330490H	88 R 40	Float from dump. Quartz - sugary containing massive galena, minor chalcopyrite, surface is oxidized.
330491H	88 R 41	Grab from trench Quartz with massive galena, surface is oxidized.
		<u>Road to O.K. & I.X.L. Claims</u>
330492H	88 R 42	Float from road Massive white quartz - containing chalcopyrite, pyrrhotite, minor malachite staining, slightly oxidized.
330141H	88 R 156	Quartz vein material Midnight Claim. Massive white quartz - no visible mineralization.
		<u>Snowdrop Claim</u>
330151H	88 R 161	Composite sample of several thin 0.5m quartz veins at back of adit. Quartz veins contain minor amounts of sulfides (pyrite) hosted in sheared serpentinite.
		<u>Atlantic Cable Claim</u>
330159H	88 R 162	Chip across 0.6m, 245°/90° in incline. Quartz vein in shear zone hosted in Mnt. Roberts silicified sediments, strong vein containing a grey, soft mineral
		<u>Atlantic Cable Claim</u>
330160H	88 R 163	Grab from dump - massive white quartz brecciated containing pyrrhotite, galena and minor chalcopyrite - rusty, oxidized surface.

ROSSLAND PROJECT - ROCK SAMPLING

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330161H	88 R 164	On main road west and north of the Atlantic Cable. Float - Quartz intermixed with dark grey sediments (Mnt. Roberts) - quartz is massive white and barren - minor surface oxidation.
330162H	88 R 165	Atlantic Cable - large dump of quartz to working (trench) above old road with flagging. Quartz vein - poorly defined, intermixed with silicified siltstone (Mnt. Roberts) - no visible mineralization - rusty oxidized staining.
330163H	88 R 166	<u>Gold King/Jumbo/Flossie Claim?</u> Grab from dump - silicified sediments finely disseminated (banded) pyrrhotite, rusty oxidized surface. South of Rossland Boundry Claim - Dairy Farm - Patterson On Crown Grant 6563
330112H	88 R 141	Grab from north wall of portal - silicified sediments (Mnt. Roberts?) contains massive galena and sphalerite with minor chalcopyrite - surface is oxidized.
330152H	(P88K01)	Pan sample Kamma Ck. area as P04844 (Kerr Addison)
330153H	(P88K02)	Pan sample Kamma Ck. area as P119203 (Kerr Addison)
330156H	(88K01)	Kamma Ck. - near log landing at end of road. Barren massive white quartz on road cut - very mixed with host rock - then quartz veins and stringers.

ROSSLAND PROJECT - ROCK SAMPLING

<u>CHEMEX NO.</u>		<u>FIELD NO.</u>	
330157H		(88K02)	Sample from large outcrop off road (see map), composite sample of several thin quartz veins, massive white quartz (barren) - outcrop bedding 35°/76°W.
330154H		(P88K03)	Pan sample east of P119203 (creek east).
330155H		(P88K04)	Pan sample as P119202.
330158H		(88K03)	Sample from road cut (see map), very siliceous quartzite - rusty - no visible mineralization.
33009H	Katie	(88S01)	L3+00S 7+75W. (Existing Grid) Syenite with many quartz veinlets infilling fractures - quartz contains minor pyrite.
330010H	Katie	(88S02)	L1+00S 11+00W (outcrop 5m south of station). Andesite-silica enriched - epidote and malachite abundant.
330011H	Katie	(88S03)	Sample from road outcrop - Hellroaring Ck. Rd. - slate - dark grey to black, fissile, very rusty and oxidized, much clay (gouge) very fractured, folded and jointed.
			Shawn Property - Porcupine Creek - Salmo-Ymir
330063H		(Shawn 1)	Above adit - from dump in trench. Massive white quartz with disseminated pyrite, surface oxidized.
330064H		(Shawn 2)	Upper trench float - quartz with fine disseminated sulfides.
330065H		(Shawn 3)	Quartz vein crossing ck., chip across 0.5m 50°/90° contains disseminated pyrite, galena, chalcopyrite, (oxidized with gouge).

ROSSLAND PROJECT - ROCK SAMPLING

<u>CHEMEX NO.</u>	<u>FIELD NO.</u>	
330066H	(Shawn 4)	L14+00S - 14+50S 1+50E Trench Quartz vein 0.05m 345°/20°E
330067H	(Shawn 5)	Trench 10m E of Shawn 4 Sample Quartz vein 333°/72°E, chip across 0.20m, vein widens to 0.6m - quartz vuggy - leached (pyritic) - vein appears on strike for 25.0-30.0m.
330051H	(MID 1)	Midnight Claim - random sampling of underground quartz veining.
330052H	(MID 2)	
330054H	(LEM 1)	Lower sample on Lemax (New Denver) Upper sample on Lemax (1-880290 Walter C)
330055H	(LEM 2)	
330056H	(ALP 1)	Lower Trench (Alpine) - old mineralized pits south of Alpine mine area. Upper Trench (Alpine)
330057H	(ALP 2)	
330058H	(STAR 1)	Star (Lectus) (Nelson) Eureka (Lectus) (Nelson)
330059H	(EUR 1)	
		Rossland Bear Property - 3 samples taken from old, shallow adit.
330109H	(BEAR 1)	Shersto - arsenopyrite from N.E. wall (Bill Howard) Shersto - front of adit vuggy qtz/galena, pyrite, arsenopyrite. Shersto - back of adit - chlorite.
330110H	(BEAR 2)	
330111H	(BEAR 3)	
		Whitewater property, New Denver
330117H	(WHT 1)	Random sampling of trenches and dumps of upper Whitewater workings.
330118H	(WHT 2)	
330119H	(WHT 3)	
330120H	(WHT 4)	
330121H	(WHT 5)	