



FIGURE 2  
Mine Site Locations

*correct location for evening star 8*

NAME	TONNAGE	NO	NAME	TONNAGE
ST THERE	10-	37	PORT HOPE	15-
OLDEN	1-	38	CRIPPLESTICK	11-
H. GROUP	216-	39	MORNING STAR	27-
OCKLANDS	331-	40	DAYTON	26-
ITTLE DAISY	51-	41	TAMARACK	117-
SILVER NUGGET	2-	42	ALMA	2-
SILVER LEAF	43-	43	OTTAWA	24342-
HIGHLAND LIGHT	11-	44	ANNA (SILVER KING)	195-
ALISPELL	22-	45	LILY B	45-
ESTMONT & EASTMONT	4391-	46	ARLINGTON	15604-
UMAC-AUSTIN	40-	47	SPECULATOR	29-
EEPAWA	506-	48	ALICE S	16-
ENTERPRISE	12274-	49	BANK OF ENGLAND	4-
ABOU & OHIO	8-	50	TWO FRIENDS	168-
IVERSIDE	22-	51	SLOCAN PRINCE	1918-
ARA-ROYAL	17-	52	BLACK PRINCE	1608-
OOMERANG	3-	53	HAMPTON	100-
AYSTREAK	126-	54	EXCHANGE	18-
HAMILTON	38-	55	SMERALDA	3-
ONESTAKE	148-	56	EVENING STAR	95-
HAPPY MEDIUM	13-	57	CALUMET	1-
APPHIRE & CHAMPION	41-	58	HOWARD FRACTION	212-
AND M	15-	59	METEOR	2878-
BATCHELOR	150-	60	MARMION & MARYLAND	48-
CORONATION	2-	61	HOPE NO.2	527-
COLORADO	27-	62	CHAPLEAU	326-
MYRTLE (ALMA)	83-	63	SKYLARK AND RANGER	3-
CUB	9-	64	KILO	2357-
GRAPHIC AND ROSEBUD	10-	65	GOLDSTREAM	40-
LITTLE TIM	160-	66	DUPLEX-JOAN	10-
BONDHOLDER	72-	67	CRUSADER	6-
BELL No.2	5-	68	ORO FINO	18-
REPUBLIC	242-	69	ALPINE	17099-
SLOCAN BOB	1-	70	JOYCE	10-
CLUB	5-	71	B&R GROUP	3-
COLD VIKING	40-	72	ELK	2-
		73	BARNETT GROUP	2-

Table II. List of Mines and Total Tonnages Produced.

Furthermore, average grade contour maps need not correspond with mineral abundance maps; due in part to the frequent presence of a given metal in more than one mineral. Silver, an extreme example, occurs principally in the common minerals tetrahedrite, argentite and native silver; with only minor amounts in the rarer ruby silvers, stephanite, etc.

Linear correlation between mineral abundance and average assay values are shown in Table VII. Those coefficients significant at the 5% level are indicated. These correlations are useful as an aid to visual analysis of the computer output maps of metal grades and ratios, a discussion of which follows.

TABLE VII. Correlations between Mineralogy and Metal Grades (Arithmetic), Slocan City Camp, B.C.

<u>MINERAL</u>	<u>SILVER</u>	<u>LEAD</u>	<u>ZINC</u>	<u>GOLD</u>
Malena (58)*	0.1343 (57)	<u>0.5371</u> (44)**	0.2677 (31)	-0.1925 (31)
Stephanite (55)	<u>0.2629</u> (54)	<u>0.4431</u> (43)	<u>0.5166</u> (31)	-0.2524 (28)
Argentite (59)	-0.2086 (57)	<u>0.3727</u> (36)	0.2538 (25)	0.2395 (40)
Tetrahedrite (35)	0.0640 (34)	-0.0960 (26)	0.3335 (20)	-0.4069 (21)

\* - figures in parentheses are the observed frequencies for each category.  
 \*\* - underlined correlations are significant at the 5% level.

### Silver

Contoured silver values (fig.37) plot in an irregular central high, orientated slightly towards the northwest. Lows occur about the perimeter. Highest values are found in the Hampton (100 tons grading 487 oz.Ag/ton), Evening Star (95 tons grading 363 oz.Ag/ton), and Coronation (2 tons grading 200 oz.Ag/ton) deposits. There is a positive correlation between silver and

tetrahedrite, galena, and chalcopyrite in that order have some slight positive relationship. There is a good chance that the early penalty on zinc values exacted by the smelters may have distorted the zinc patterns, since even the sphalerite plot disagrees with much of the metal assay contoured surface.

### Gold

Gold (fig. 40) is remarkable for plotting strong highs to the north and southwest, around a well defined central low. The entire pattern is exaggerated towards the north by the Golden property (1 ton grading 5 oz.Au/ton). It is flanked, however, by the Little Daisy, the L.H. property, and the Rocklands - all with substantial gold values. The Morning Star (27 tons grading 1.68 oz.Au/ton) is on the western rim of the camp, while the Evening Star (95 tons grading 1.25 oz.Au/ton), Chapleau (326 tons grading 2.9 oz.Au/ton), the Crusader, the Alpine, the Oro Fino, and the Skylark and Ranger properties spread across the southern extremity of the camp. Pyrite correlates to a surprising degree with the gold metal values.

### Silver/Lead

The ratio of silver to lead (fig. 41) forms a rather vague plot with random highs scattered around the map area. Since several of the mines have extremely low lead values, their moderate silver values "balloon" the ratio value. Peak values occur at the Meteor, Republic, and Duplex (Joan) properties. Of the minerals, only pyrite has a slightly positive