

Plan - Silmonac Report.

(non. "Special Delivery" fee)

Letter - a very simple letter of transmittal - w. no excuses, apologies, explanations, etc.  
Title Page  
Index incl. figs bound in text  
Index map - over page 1.

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12 copies of report  
reg'd in first  
instance (G.W.W. letter  
March 25/77 / rec'd Mar 30.  
= 5 days  
MARK CONFIDENTIAL

Summary & Conclusions - see p. 39 - Printed Report.  
mention of personnel & capital management - see p. 47, CO. 1968 68.  
Recommended Work - note that these refer mainly to  
(these agreed by S.C.S.C) the widely used  
Stage I, Stage II, Stage III etc. appropriate development & alternatives.  
Estimated Costs for Stage I, Stage II, Stage III, etc.  
see 1967 Est. Costs for X-mining (etc.) & note  
that these relate to the recommendations above  
Introduction

Do research & give  
completions only  
previous to writing  
a particular section of  
the report

Reference

- System has been recent exam. made and work accomplished on that trip  
- State planning office work (maps & studies of govt. & private reports & Co. records & records  
- and reasons for so much time spent on maps work.  
- Consideration with the Silmonac mining project (see p. 6, 1967) etc.  
- Sources of info.  
- I write background experience in Slovan geology, incl. Volcanic.  
- Purpose of current report, details of author's experience, terms of  
reference (see p. 6 & 7, 1967 report, p. 3, Feb/72 rept & parties G.W.W. letter March 25.  
- References see p. 8, 1967 etc. also mention that much data in current develop &  
Property mining economics kindly furnished by Minors G.W.W. and W. Hugg.

James O'Brien

(a) Location & accessibility (p. 9, 1967 report; p. 6, 1966 report, J.C.B. April/68.  
rept # 4 p. 9, 1967; p. 10, 1967 rept. Feb., 1972, etc.)  
(b) Claims - Incl. Fig. 2 - Property map, Silmonac mines, etc.  
Property comprises one near-square block of 65 " " "  
contiguous c.g. mineral claims, - Note that other claims  
are shown on Fig 2 - Property map, as well as those  
comprising the (1st of p. 6, 1966); also last p. 9, 1967, etc.  
Note main Slovan lode, herein termed the main lode is continuous over  
the E-W extent of the claim block, & is contiguous with former major  
mines on this structure, east of the district.

(c) Service & Supply Facilities, see p. 10, Nov/67. - and others, ref to G.W.W. Feb 2/77  
(d) Topographic & Climate see G.W.W. Nov 19/76, p. 4; Hewitt - Van Poire etc. etc.  
MINE WORKING & GENERAL PLAN - describe mine  
- meter diff plant, present mine production & melting capacities & performance  
- see Bull. of Nov. 1967, succedent cont. & MM repts. and complete with  
- details provided in G.W.W. memor. & studies - parties Nov 19/76, p. 2 etc.  
Current Mining Operations (a) above p. 6, 25. (b) below p. 6, 25 level } covered check  
- incl. develop. mining & exploration. } particulars via  
- phone call to Bull. #  
(a) Silmonac mine - total production by MM & M.H.  
Note mine workings on the main lode, which is defined as a  
- major zone of transverse bedding deformation, shearing, & fracturing - composite nature  
(b) Main lode to date: (via list of all relevant properties) - see old  
- tonnage, 22 p.m., 20 p.m., 10 p.m., lbs Cd.  
- translated into dollars rel. to 1977 metal prices.

not too much time on this!  
GEOLOGY & MINERALIZATION. also see Mayo p. 10, #2, #3 - p. 11  
(A) Regional - Nov/67 & Feb/72. Also note limiting elevations of  
- optimum panel over known length of main lode and those within  
(B) Main lode - see Bull #29, Mayo, WMS reports; incl. vert range of principal orebodies E-W  
- w. relationship to rock types & structures and main features of lodes & product for  
- Feb/72 (Nov/67 & Feb/72); incl. signs, features of laminar interval; incl. (Mayo) intense alb  
- (C) Mine - see Feb/72, descriptive part of Interim Report TL-3.  
- see p. 29.

ORE CONTROLS - Keep this to a list, w. explan. text  
- see also for M.S. Hedley note also C.E. Harris's substantial detail in  
- his mem. 173, rel to 'transverse', or 'lode' panels  
- also distinguish between nature of main lode structures and  
- that of subordinate lodes & veins - noting tendency of  
- ore to occur throughout the 1000' plus vert range of the  
- principal optimum panel on the main lode via the  
- tendency of orebodies, to localize at either upper or lower (0.75)  
- limits of the optimum panel. Note interplay association of main  
- lode with the main transverse bedding panel or hinge-line of bedding structure.  
- also incorporate G.W.W.'s Statistical Approach, which imply that

see also for M.S. Hedley  
W.S. repts  
Sept 11/72

favorable (zone) is essentially conformable with the principal dip between the Payne - Q.B. west dipping element of the main Elwan fold; also see maps

See also maps, P1 + P3 - P4 / page 43 P2 / page 45

ORE RESERVES

Definitions

(a) - Probable or Indicated

(b) - \* Possibly or Potential - can make this as large as we want to, as long as figure is logically derived.

See G.W.W. Nov. 19 in pocket intervals, P. 6/P. 4; P. 13/P. 3 Jan 19: P. 3/P. 4

Possible use 2 bases: 1st based on lode areas 2nd based on 1/1000' lode length with appropriate discounting factors

EXPLORATION - DEVELOPMENT CONSIDERATIONS

Preliminary - attempt to outline the more significant parameters via the 'list method' affecting the alternative methods below.

Alternative methods, including rough estimate of costs for all aspects of proposed action. Show a detailed cost estimate for the proposed alternative below:

Preferred Plan (incl. rehab + re-equip of 4000 level, and note 2 alternative changes can be followed at inner end)

if time (show time and cash schedule + via bar chart) if time allows

CURRENT PRODUCTION & MARKETING COSTS

- (1) Preliminary
- (2) Costs @ current production rate
- (3) Projected costs @ higher production rates (3000, 3500, 4000 t.p.m)

VALUATION OF CURRENT MINE PRODUCTION & RESERVES

Preliminary (bases for following values)  
Net Smelter Value, Lead Concentrates Ref. to Feb/72 rpt, pps 14, 15.

Net Smelter Value, Zinc Concentrates  
Net Mine or Millhead Value - Ore Reserves

Value of 1000 tons of Pb + Zn concentrates =  $\frac{100}{17.72}$

See Soranton report, Aug. 1975 pps 33 - on -

FUTURE METAL PRICE CONSIDERATIONS

General - see E.M.J., G.W.W. etc etc

Expected Short-Term Increases

Expected Long-Term Increases

FUTURE PRODUCTION COST CONSIDERATIONS

NET CASH FLOW PROJECTIONS based on: (1) G.W.W. studies (2) E.M.J. March 1977 (3) G.W.W. studies (4) here by Develop. Mining Co. 3500 T/mo

NET Cash Flow = Cash Inflow - Cash Outflow

(A) Allow (1 year) for completion of new development program, incl. the driving of sufficient 1800' - 2000' of 8' x 10' lateral and stube to prepare for mining of currently-deliv. ore blocks and their dip-extensions.

(B) Estimate net cash flow from 4625-based operations (1600 t/mo) during this period and, if it is positive, accrue it in a general + on-going reserve for pay-back.

(C) Compute net cash flow from operations from the 4000-base, at increasing annual increments of through-put, to about 3500 t/mo, over a 5-yr period and put in table-form: From these results (table) length of time to pay back capital cost of the new development program can be ascertained (if time avail, allow for annual cost-price increases).

APPENDICES (on page sheet of pocket)

Sub-head: List of Report Maps (in pocket)

In Introduction, express opinion of G.W.W.'s provision of tech. data / maps, etc for the purpose.

Change title to some form of FEASIBILITY

REPORT - BASED ON FACT (S & C) that ore

reserves include a substantial and firmly indicated portion of recoverable blocks of ore.