

Accomp Dwyg w. full report

issued

*Fig. 1, 2, 3 } per Dec 167
Dwg. 1- } report - revised
as req'd for
this report.*

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800889

ROOM 1, 425 HOWE STREET
VANCOUVER 1, B.C.

December 11, 1968

President & Directors,
Kennedy Silver Mines Ltd. (N.P.L.),
Suite 826, Rogers Building,
470 Granville Street,
Vancouver 2, B. C.

Attention - Mr. John R. Lakes, President

Dear Sirs:

**INTERIM GEOLOGICAL REPORT
PRELIMINARY EXPLORATION OF
BOUNTY - EXPO COPPER PROSPECT
Scott Creek, Pitt Lake, B. C.
New Westminster Mining Division**

GENERAL:

This report provides a brief summary of the additional exploration accomplished at your property during 1968, and follows upon the writer's December 8, 1967 formal report. The reader is referred to the earlier report for general, preliminary information pertaining to the claims, location access, history, general geology, the principal showings, and exploration accomplished prior to December, 1967. The 1968 exploration data have been added to Dwg. No. 1 - December, 1967. Other maps of this set, comprising Fig. 1 - Index Map, Fig. 2 - Property Map, and Fig. 3 - Main Showings, South Prospect Zone, are unchanged.

During April, 1968 the December, 1967 recommendations for exploration were reviewed with Company directors, in the context of available exploration funds; the decision was made to limit the 1968 program to basic prospecting, additional soil-sampling and, possibly, a minor program of diamond drill exploration on lower, relatively accessible parts of the inferred South (Gully) fault contact structure and 'North' ('350 - 120' showings) zone mineralization.

During June and July, 1968 Mr. S. Fegan and assistants carried out specified soil sampling and trenching within the Southeast Prospect zone and North zone to investigate possible extensions of exposed and geochemically-indicated mineralization.

The writer visited the property on July 23rd, in the course of which he examined and mapped newly-trenched exposures, did some supplementary geological mapping, laid out d.d.h. No.1, ran a check (control) survey from Brunton sta. 5 to 'J' at the '350' showings, and advised re additional exploration to be done. The writer visited the property again on August 18th and logged core obtained from d.d. hole No. 1 up to the point at which the hole was lost - some 160 feet short of its scheduled length. Also, d.d.h. No. 2, to explore possible depth extensions of North zone mineralization, was marked off. No further visits were made during the remainder of the exploration program; the writer logged and sampled that part of d.d.h. No. 2 core which he had earlier requested Mr. Fegan to bring to Vancouver on completion of this hole. During the latter part of September the writer reviewed the drilling contractor's invoices and advised his clients re certain charges, and discussed the 1968 exploration results. More recently the writer conferred with Mr. Fegan on assessment to be filed on the claims; with this the 27-claim group will remain in good standing for another year.

In reference to Drawing No. 1, the writer points out that all control has been established by Brunton-tape surveys; hence, as a consequence of the generally difficult ground-access conditions, and of the probability that some bearing errors could have been introduced by local magnetic attraction, the over-all and relative positions of map details should be considered as only of approximate accuracy.

SUMMARY, 1967 - 68 EXPLORATION:

A. Southeast Prospect Zone:

Two new trenches were cut to intercept, respectively, southerly extensions of the central '925' mineralization and northerly extensions of the more easterly (footwall) fractures of the zone. The more southerly trench reportedly exposed and followed a transverse fault (?) containing only sparse copper mineralization, and which probably displaces the Southeast zone in this locality. The northerly trench exposed a moderately fractured section with minor copper mineralization within the quartz diorite wall rocks.

Additional soil sampling was accomplished via an extension of the sta. 19 line and by new lines to the northeast from stations 21 and 23, respectively. These confirmed and extended the preliminary geochemical anomaly, and partly defined a second (parallel or branch) anomaly to the northeast of the first. Subsequently, a short trench was excavated at line 19, 175E; this exposed some dispersed pyrite-minor chalcopyrite mineralization on a locally-fractured section of (quartz ?) diorite.

The recent trench and geochemical exploration indicates a possible parallel, up-hill source of copper mineralization separate, and in addition to the mineralization originally exposed by the '925' open cut and '880' crosscut and drift. Also, as noted in the December, 1967 report, the latter workings appear to explore only the hanging-wall part of the '925' mineralization. The writer concludes that adequate exploration of the full potential cross-section can only be done by diamond drill; however, in view of the steep, to precipitous character of the surface this exploration might be beyond the present financial capabilities of the Company.

B. South Prospect Zone:

Geological mapping and prospecting of exposures within the lower part of the South gully has substantially confirmed the earlier inference that a major mass of younger granitic rocks forms much of the southwesterly wall of the gully, and that this major topographic feature has developed through erosion of a softer, northerly-trending zone of shearing and fracturing between granitic and dioritic phases of the regional intrusives and/or a possible intervening septum of mixed metamorphosed sediments and intrusives. Also, the preliminary inference that the several more-or-less contiguous mineralized fracture zones within the older diorites to the northeast of the gully spring from a major contact-shear zone within the floor of the talus-filled gully still appears valid. Diamond drill hole No. 1 was put down to investigate this section. It was to have been drilled to 300 feet, as indicated on Dwg. No. 1, for a test of the full geological cross-section. The available (x-ray) equipment was inadequate for this purpose and the hole was lost at 137 feet. The core obtained, however, disclosed the presence of strong shearing, alteration, and very minor copper mineralization within the part-section tested. Additional holes, drilled with at least B.Q.W.L. equipment, from the same and other set-ups along the course of the contact structure appear warranted in view of the information thus far obtained, and in consideration of the possible importance of the South gully structure as a fundamental control for the local mineralization.

Core logs of both d.d. holes Nos. 1 and 2 supplement the above and subsequent notes.

C. North Prospect Zone:

Diamond drill hole No. 2, collared at about 50 feet southwest of, and 40 feet above the '120' portal was drilled 180 feet on an E.N.E. bearing at minus 32° inclination. The plotted position of the hole suggests that it penetrated the '120' structure at about 80 feet southeast of the adit portal, and closely above it, and that it also intersected the '350' mineralized zone almost directly down-dip, and some 230 feet

below these open cuts. With respect to the latter intersection, the writer infers some discrepancy between the plotted and actual positions of the '350' exposures; the surface showings probably lie somewhat southwest of their mapped position.

The sampled 2.7-foot intersection on the '120' branch of the zone amounts to a true width of 2.35 feet assaying Au, 0.03 oz/ton; Ag, 0.10 oz/ton; Cu, 0.68%; the 3.0' foot intersection on the '350' (?) strand reduced to 2.5 ft. true width of 0.39% Cu-Au and Ag not assayed. The North zone mineralization is principally associated with steeply-dipping, northwesterly-trending dense, hard, black (diabase) dykes within the local dioritic body. Bleaching, silicification, and sericitization of the dykes, and chloritization, bleaching, and lesser silicification-sericitization of the diorites are characteristic features of the '120' - '350', and similar zones of mineralization. From results to date, the writer infers only a minor to moderate probability for the occurrence of mineable widths and grades of Au-Cu mineralization within unexplored intervals of the North prospect zone. The major ore potential would appear to lie with the general South (gully) structure, and within structures in closer proximity to it - the latter possibly represented by the Southeast zone showings and their strike and dip extensions.

Trenching on the inferred northwesterly extensions of the '120' mineralization, across a section closely down-hill of the '120' portal failed to reach bedrock at reported depths of 12 - 15 feet. However, on the basis of reported bedrock exposures near the toe of this slope, the writer is of the opinion that the desired exposures could be obtained at moderate expense via bulldozer stripping and trenching. Also, in view of the geochemically-indicated, significant over-all width (150'-plus) of the North zone three, or more B.C.W.L. holes, totalling about 1,000 lin. ft. would be required to fully explore the '350 - 120' interval.

D. North of Scott Creek:

Prospecting here has resulted only in the discovery of a few isolated occurrences of sulphide mineralization. The minor amount of exploration accomplished consists of two closely spaced soil-sample traverses across the assumed northwesterly extension of the main South gully zone. Geochemical copper ranged from 4 - 92 parts per million, or considerably less than those associated with the zones to the south of Scott Creek.

CONCLUSIONS:

The writer's present opinion is that sufficient soil sampling has been accomplished to define specific target zones, and that the originally-contemplated follow-up geophysical exploration could be too difficult and costly in view of the limited vertical scope of most methods. It appears that further exploration of the principal target - the South gully, and Southeast prospect zones would be most practicably accomplished by diamond drilling from about three prepared set-ups. The writer estimates that this would involve a minimum of 3,000 ft. of drilling at a gross cost of 12 - \$15 per foot - or, with related expense, a total expenditure of about \$50,000 to explore only the major structure.

*I.P. not
considered
initially
- only
E.M.*

Respectfully submitted,

W. M. Sharp

W. M. Sharp, P. Eng.

WMS/LA
Encls.

W.A. File.

KENNEDY SILVER MINES
BOUNTY - EXPO. PITTL
B.C.

1 OF 2

W.M. Sharp, P. Eng.

Property 1 - XRP BITS.

Sheet No. SOUTH GULLY, 50' N. N.E. OF 05 DIAMOND DRILL LOG

JULY 30, 1968

Loc. Collar 274' (PITT L. DATUM 0)

DDH No. _____

Elev. Collar 522° W

Started AUG. 17, "

Bearing - 45°

Completed 137' (OBJECTIVE 300'
LOST CORE BARR.
FL. 0.127')

Inclin. _____

End/Date _____

D'-Feet	Gore Recov.	Description of Core	SAMPLING			
			No.	Ft.	Cor. Sl.	
13.4	7.0	AGGITE DIORITE, MED GR. GNEISSIC, NO MIN'L N. LOC. (CHERT) SILICIFIED	- NO SAMPLING -			
16.5	2.6	SIM. AUG DI; TWO 4" INCLUSION BANDS W. CHERT-EPIDOTE ALT'N.				
26.0	5.5	FINE GR. AUG. DI.; GEN. MILD CHLORITIC ALT'N. W. SOME CHERT-EP. SECTIONS (ALT. INCL'S.?) NO. MIN'L N.				
44.0	10.7	FINE GR. (AUG. DI); MAINLY SHEARED & OCC. BRECCIATED; ALL DISTINCTLY CHLOR'Z'D.; LOC. CHERT-EP. REPLAC'T. BROKEN SECTS. W. CONSID. CORE LOSS. ONE SPECK (HALOPYRITE @ 38' (+).				
57.0	11.8	FINE GR DI OR DIORITIZED V.L.'S. ETC. MINOR SECTS. STRONGLY CHLOR. AUG. DI.; OCC QUARTZ BANDS & BLEBS; LOCAL STRONGLY FRACT. SECTS; SP. EP. ONLY.				
86.5	12.5	AUG. DI & F. GR. DYKE OR DIOR'Z'D INCL'N. - THE LATTER BROKEN, SHEARED, & TORTURED, 50-50 CA ROCK TYPE ALL STRONGLY CHLORITIZED - 1 FRACT. CONTACT DISSEN. PV @ 63.6'; SPECKS (HALOPYR) @ 77'				
103	8.5	AUG. DI; C. GR. GNEISS (45°) + WEAK CHLOR.; MINOR SECTS. W. SILIC'D. DIOR'Z'D INCL'S.				
115	10.5	AUG. DI. STRONGLY MYRON'Z'D. & CHLOR'Z'D. MINOR INCL. MAT'L.				

(CONT'D)

Remarks:

SHEARING, ALTERATION & SP. EV. OF MIN'L N. CONFIRM SUPPOSITION
Drilled by: SOUTH GULLY MAJOR SHEAR FRACT. ZONE LOGGED BY: FEEGAN (OLDER)
DIORITE & (YOUNGER) GRANITE INTRUSIVE BODIES.
S. FEEGAN & MAGNUSSEN.

W.A.

W.M. Sharp, P. Eng.
2072

Property _____

Sheet No. (SHEET 1)

DIAMOND DRILL LOG

1 CONT'D

Loc. Collar _____

DDH No. _____

Elev. Collar _____

Started _____

Bearing _____

Completed _____

Inclin. _____

End/Date _____

Feet	Core Recov.	Description of Core	SAMPLING			
			No.	Ft.	Core Sl.	
			- NO SAMPLING -			
115 - 121	5.0	DYKE, BROWN LAMPROPHYRE; PHENOS (BLUE ZEOLITE) NO. MIN'L'N.				
- 125	3.8	AUGITE DIORITE, GEN. LIGHTLY CHLORITIZED; NO VIS. MIN'L'N.				
128	1.2	AUG. DI - BROKEN (GEN. & CHLOR'Z'D.); FREQUENT BROKEN WELL CHLOR'Z'D. SECTS.; NO VIS. MIN'L'N.				
137	7.0	AUG. DIORITE, GEN. LIGHTLY CHLOR'Z'D. FREQ. BROKEN, WELL CHLOR'Z'D. SECTIONS. NO VIS. MIN'L'N.				
		BIT STUCK @ 137', WHOLE CORE BARREL SECT. LOST ON ATTEMPT TO RETRACT.; HENCE FAILED IN PRINCIPAL OBJECTIVE OF CROSS- CUTTING FULL WIDTH OF SOUTH BULLY ZONE AND BORDERING (S.W.) YOUNGER GRANITIC INTRUSIVE. RECOMMEND RE-DRILL (W. B. Q.W. L.) THIS & HIGHER (925) SECTION DEPEND ON ACCESS COSTS.				

Remarks:

Drilled by:

Logged by:

S. FEGAN - MAGNUSSEN.

AVAMA

W.M. Sharp, P. Eng.

Property BOUNTY - EXPO
PITT LAKE, B.C.Sheet No. 1 of 1

DIAMOND DRILL LOG

Loc. Collar 100' S.E. OF 120' ADITDDH No. 2 - XRP BITSElev. Collar 160' (PITT L. AS 0-DATUM)Started AUG. 19, 1968Bearing N. 73° E.Completed SEPT. 1, 1968Inclin. - 32°End/Date 180'

Feet	Core Recov	Description of Core	SAMPLING					
			No.	Ft.	Cor Sl.	Au	Ag	Cu.
		NOTE: ONLY # 2 - BOX OF CORE PROVIDED BY S. FEGAN, REMAINDER AT SITE. W. GEN. DESCRIPTION SUPPLIED BY S. FEGAN.	"61245	2.5'	T.W.	0.03	0.10	0.68
0-31.2'		NOT LOGGED	510-53.7'					
-32.2	1.0	F. GR. DYKE OR INCL'N: APPRECIABLE MAGNETITE (MT.), MINOR PYRRH., TRACE CHALCOOPYRITE (CP.)	"61246	2.5'	T.W.			0.39
			(107.5'-110.5')					
-33.0	0.8	HBD. DIORITE, SLIGHTLY ALTERED SOME PYRRH. & MT. W FEW SPECKS CP.						
-37.5	4.0	HBD DI; NORMAL. COARSE - GR TEXTURE HBDS ALL ± CHLOR.; MINOR MT. PRESENT.						
-40.5	2.5	HBD. DI. W. FREQ. BANDS F. CR. (DENSE) BLACK DYKE (OR DIOR'Z'D INCL'S) MINOR PYRRH., TR. CP.						
-51.0	5.0	RECOVERED - MAINLY HBD-DI. W. HBDS ALL WELL CHLOR'Z'D.; APPRECIABLE & INCREASING SERICITE ALT'N.; TR. SULPH'S						
-53.7	2.5	BL. SERICITIZED (DYKE?) APPRECIABLE VN. & DISSEM. CP. ASSOC. W. PYRRH. (VN 60°)						
-62	?	HBD-DI. - VARIABLY BLEACHED; CHLOR'Z'D MARKS. OCC. SECTS FAIR PYRRH/CP. TO 56.2'						
-180	?	REPORTED HBD. DI & INTERMITTENT BANDS DYKE OR INCL.; LOC. SPECKS OF CP.						
END.								
		NOTE: PYRRH/CP. MIN'L'N. ASSOC. W. MIXED DYKE-DIORITE ZONES & BLEACH-SERICITIC ALT'N.						

Remarks: CORE RECOVERY LESS THAN ADEQUATE.Drilled by: S. FEGAN - MAGNUSSEN.Logged by: W.M. A
(+ S.F.)