

NEWMONT EXPLORATION LIMITED

BOX 366

JEROME, ARIZONA

July 22, 1954

009231

Dr. A. A. Brant
Jerome
Arizona

Dear Dr. Brant:

Following is a brief account of my recent trip to the Pacific Nickel property in British Columbia, and of the ensuing discussions with Mr. C. S. Greenlee and Mr. R. Sheldon.

Mr. Sheldon gave me an instructive view of the geology, particularly as it pertained to geophysical work. He showed me representative specimens taken from the recent 6500' exploration tunnel. Together we reviewed past geophysical programs, including magnetic, electromagnetic, self-potential, pulse and resistivity. I was also shown drilling and development results connected with geophysical results.

Although hindsight is easy, I concluded that the pulse method was not suitable to this area for the following specific reasons: the basic pyroxenite covering most of the property contains, almost invariably, small percentages of disseminated sulphides. While the content is low, it is variable and sufficiently high in some cases to give sizeable pulse anomalies. These anomalies would not necessarily reflect ore occurrences. Further, the ore occurrences as such seemed to be typified in the majority of cases by interconnected (interstitial) sulfides, which might not give high pulse response. Even when aided by resistivity results, ambiguity is likely to result.

Similarly, magnetic results would also tend to confusion, due to variability of pyrrhotite susceptibility, combined with random magnetite occurrence in the pyroxenite.

The electromagnetic results obtained by the McPhar Geophysical Company have not yet been tested, but it is my opinion that the EM results, combined with resistivity, are probably most applicable to the property. The McPhar results are being reviewed for possibility of specific recommendation.

A discussion with Mr. Greenlee then followed concerning the immediate geophysical problem. Mr. Greenlee had in mind the possibility of our appreciably reducing their development costs in the case of encouragement from drill holes. That is, could we make tonnage and ~~value~~ estimates of a body after two or more drill intersections had been made. Such a problem is now represented by the recent intersections of the Brunswick #3 body. Answers to this must take into consideration the geophysical, mining and economic

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spent in the
area, [unclear]

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Dr. A. A. Brant
July 22, 1934

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vicarinate, all of which were discussed at length. Limitations in the geophysical accuracy of shape estimates, as learned from Leadville experience, combined with economic factors, led us to agree that isolated work of this kind should not be attempted at present.

It was further agreed that occasion might arise for future geophysical work at the property, and in this direction I attempted to give Mr. Greenlee and Mr. Sheldon a picture of the limitations and possibilities of geophysics to their problems.

Respectfully submitted,

Don M. Wagg

Don M. Wagg

DW:lu

cc: P. Secria, Jr.
P. Malenstiff ✓
R. Sheldon (Pacific Nickel)
B. Greenlee

TABLE OF CONTENTS

Geophysical maps retained in Vancouver office,
geological files.

1. Magnetometer survey Brunswick 2 Area -
September 16, 1960 - by R.P. Mason.
2. Magnetometer survey Brunswick 2 Area.
Re plot of September 1960 survey - February 10, 1965.
3. McPhar Geophysics Ltd., - Magnetometer Survey -
- X.Y.Z. Grid - 1008
4. " " " - Electromagnetic survey -
Hope property - 1012
5. " " " - Pride of Emory - 1011
6. " " " - X.Y.Z. Grid - 1007
7. " " " - Magnetometer survey -
Hope Property - 3018
8. " " " - Magnetometer profiles -
X.Y.Z. Grid - 2011
9. " " " - Magnetometer survey -
Hope Property - 4017
10. " " " - Magnetic intensity profiles
and topographic profiles -
Hope Property - 3021
11. " " " - Magnetic intensity profiles
and topographic profiles -
Hope Property - 4018
12. " " " - Magnetometer survey -
Hope Property - 4016
13. " " " - Electromagnetic survey -
Pacific Nickel Mine

14. Geophysical grid, Pacific Nickel Mines Ltd.,
Scale 1 inch - 300 ft., June 1952, S. Onhasey
15. Western Nickel Ltd., tracing showing results
of pulse survey superimposed on geological plan,
scale 1 inch = 300 ft., July 1953.
16. Newmont Exploration Ltd., Pacific Nickel Project,
Pulse Plan Map, Figure 1, scale 1 inch = 300 ft.
17. Figure 2, Pacific Nickel Mine, Hope, B.C., No. 1
Adit, Pulse contour map, scale 1 inch = 300 ft.

TABLE OF CONTENTS

GEOPHYSICAL DATA

1. Resume magnemetric survey data of the B.C. Nickel Property - Eugene E. Bergmon, August 5, 1935
2. Letter dated March 21, 1951 from Eugene E. Bergmon.
3. Letter dated March 21, 1951 from Eugene E. Bergman.
4. Letter dated April 21, 1951 from Eugene E. Bergman.
5. Report on the electromagnetic survey for Pacific Nickel Mines Yale District, B.C. - McPhar Geophysics Limited, S.H. Ward, Geophysicist - October 4, 1951.
6. Final report Pacific Nickel project, Hope, B.C., Canada, July - September 1952 - Newmont Exploration Limited, Robert J. Searls, April 9, 1953.
7. Results of surface geophysical operations Pacific Nickel Mines, July 13 to October 5, 1952 - Harold O. Seigel, October 15, 1952.
8. Report on Surface Magnetometer and Electromagnetic surveys of Pacific Nickel Mines Property near Hope, B.C., for Pacific Nickel Mines Limited - McPhar Geophysics Limited, S.H. Ward, Geophysicist, November 17, 1952.
9. Pacific Nickel Mines Ltd., Final report on geological and geophysical work Pacific Nickel Mines Ltd., - C. Riley - December 29th, 1952.
10. Letter to P. Molozemoff from Arthur A. Brant, February 4, 1954.
11. Hill, Starck and Associates, notes on magnetometer surveys by R. M. Mason, - September 1960.
12. McPhar Geophysics letter dated July 19, 1973 to W.E. Clarke from A.W. Mullon.
13. Letter dated July 22, 1954 from D.M. Wogg., Newmont Exploration Limited to Dr. A.A. Brant.
14. Letter dated October 16, 1969 from P. Connell, Kelso Explorations Ltd., N.P.L. to F. Holland re Grani -meterwor

Geo. Hyslop
[Signature]

October 28, 1969

Kelso Explorations Limited
414 - 470 Granville Street,
Vancouver 2, B.C.

Attention: Mr. P. Connell

Dear Mr. Connell:

Thank you for your letter of October 16, 1969.

We were only too pleased to be of assistance to you this summer, and are gratified that our help appears to have been of real value.

It would be very interesting to go over the results of the Gravi-meter work with you. It sounds very interesting.

I don't know whether Mr. de Roux and myself will be able to come over to your property before the snow flies, but we will certainly try.

Possibly you could contact us early next week, and we might be able to arrange a day.

Yours truly,

GIANT MASCOT MINES LIMITED,

FRANK EDLLAND,
General Manager

cc: L. P. Starck
cc: W. E. Clarke

KELSO EXPLORATIONS LTD. (NPL)

EXECUTIVE OFFICES:
414 - 470 Granville Street
VANCOUVER 2, B.C.
Phone 688-4341

October 16, 1969.

RECEIVED
OCT 24 1969

Mr. Frank Holland, Mgr.
Giant Mascot Mines Ltd.,
Choate, B.C.

Dear Mr. Holland:

Please accept my belated thanks for all the help and advice you gave me and my assistants during the summer. It was very interesting and extremely helpful towards the development of our property. Also we would like to thank L. DeRoux, for all the instruction and help he accorded us.

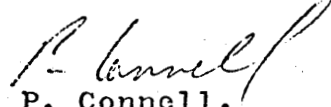
The reports on the correlation Gravi-meter work we did on your property and in the 3550 tunnel are now complete and they are quite interesting. I'm sure you will be interested in the results on the surveys done up near the summit and over the area where you had been doing trenching. The results are proving very helpful to us and have given us a basis on which to correlate our geophysics. If you wish, I will be happy to bring the report up one day or whatever you may like.

I am wondering if your offer for you and Mr. DeRoux to come over to our property for a day still stands, and if so could you make it in the next short while before the snow starts to fly.

Hoping to hear from you, I remain;

Yours sincerely,

KELSO EXPLORATIONS LTD. (NPL)


P. Connell.

PC/c