

2496

REPORT ON
MAGNETOMETER GEOPHYSICAL SURVEY
DONE BY
HELGE SMESTAD AND LARRY SOSTAD
ON
THE EX GROUP OF 40 CLAIMS
AND
THE EL GROUP OF 37 CLAIMS

FOR
EXEL EXPLORATIONS LTD. (N.P.L.)

BY
F. C. TOMLINSON, P. ENG.

March 26, 1970



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ATTACHED: (Rear)

Certification

#1 KEY MAP

#2 LOCATION MAP

Sample Calculation Sheet 1/2 8520 of Overlay

#3 TOPOGRAPHICAL MAP

" " "

#4 Partial Location Plan

" " "

PLAN OF LINES WITH MAGNETOMETER READINGS

Addenda

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2496 MAP.....



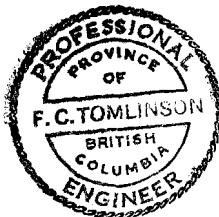
INTRODUCTION:

The report on the magnetometer survey done by Larry Sostad and Helge Smested on contract agreement with Exel Explorations was requested by Mr. Ken Newton, an official of the Exel Explorations of 404 - 550 Burrard Street, Vancouver, B. C.

The RWS group of claims and the Isy group, an adjoining group to the south of the RWS group, are the subject of a report written by Alfred R. Allen, P. Eng., dated November 30th, 1969, in which an estimated expenditure of \$140,000 was recommended on the property. The Alfred R. Allen report should accompany this report for general information regarding the property.

LOCATION AND EXTENT:

The property is located fifteen miles north of Merritt via the Highland Valley road. The group includes Mammit Lake in the western portion of the group and extends easterly from Mammit Lake and Guichon Creek. See attached Key Map and Plan of Claims as recorded on Department of Mines recording map. The RWS claims are staked and recorded on Department of Mines recording map. The RWS claims are staked and recorded in a contiguous group of 77 claims which, for the purpose of recording assessment work, have been



grouped as follows:

The Ex Group RWS	1 to 6 incl.	Record Nos. 39950 - 39955 incl.	6
RWS	16 to 21 incl.	Record Nos. 39965 - 39970 incl.	6
RWS	63 to 77 incl.	Record Nos. 40012 - 40026 incl.	15
RWS	88 to 96 incl.	Record Nos. 40037 - 40045 incl.	9
RWS	117 to 120 incl.	Record Nos. 40066 - 40069 incl.	4
			<u>40</u>

The El Group RWS	7 to 15 incl.	Record Nos. 39956 - 39964 incl.	9
RWS	22 to 30 incl.	Record Nos. 39971 - 39979 incl.	9
RWS	79 to 87 incl.	Record Nos. 40028 - 40036 incl.	9
RWS	97 to 106 incl.	Record Nos. 40046 - 40055 incl.	<u>10</u>
			<u>37</u>

Messrs. Smestad and Sostad state that they located a claim post on a location line near the centre of the 77 claim group. This post is common to RWS 20, 21, 22 and 23. From this post a base line was cut on due north astronomic bearing. Lines were cut normal to the base line at 400 ft. intervals with picket stations at 100 ft. intervals on the lines. The distance from the base line, east or west, was marked on the pickets.

Four Sharpe MF No. 1 Magnetometers were used for the survey. The procedure was according to Mr. Sostad.

One "master magnetometer" was set up at a central point on the base line, using the same point each day during the time of the survey. All the magnetometers, including the master magnetometer, were set at zero reading over this point at the beginning of each working day. Readings were taken at 20 minute intervals from the master magnetometer, which remained over the same point during the working day.



All watches were synchronized at the beginning of each shift and the time was noted for each reading taken by the three magnetometers on the lines.

A constant of 1000 gammas was used and added to all readings of all magnetometers which were taken at 100 ft. intervals on the lines and on the master magnetometer. The time, location on the line and readings were noted for each 100 ft. interval.

All readings taken on the lines have been adjusted for diurnal variation from readings on the master magnetometer.

A special form was used for making the adjustment for each reading on the lines. A sample form is attached to this report.

The writer has not inspected the work done by Mr. Sostad and Mr. Smestad. I have known Helge Smestad for over ten years and Mr. Larry Sostad for two years. I have found them to be conscientious workmen and technically qualified to carry out a survey of this nature.

Plans submitted by Larry Sostad in the form of transparent overlays included a claim map, a topographical map with contours, and a plan showing the location of the lines and the adjusted readings taken on the lines relative



to the master magnetometer, all on a scale of 500 feet equals 1 inch.

These plans for inclusion with this report showing the Topography and Magnetometer readings were reduced to half size and prints made from the sepia.

A key map showing the location of the claims with respect to Merritt and a location plan is also included with this report.

CONCLUSION:

Time has not permitted a thorough study of readings taken on the lines as recorded. There are very few negative readings. It is possible that the arbitrary 1000 gammas was chosen at too high a figure, but the readings are relative and will be useful combined with geochemical, geological and geophysical-induced polarization survey or electromagnetic survey.

There are high reading 2000 gammas and over on lines 44+00 N to 28+00N to the west of Mammit Lake.

There are minus readings or below 200 gammas on lines 24+00N to 40+00N to the west of the base line.



RECOMMENDATIONS:

The RWS EX and EL groups of claims totalling 77 claims warrant the expenditure of \$100,000, which is pro-rate of the \$140,000 recommended by Alfred R. Allen in his report on 130 claims dated November 30, 1969.

F. F. Tomlinson

F. F. Tomlinson, P. Eng.



C E R T I F I C A T I O N

I, F. C. Tomlinson, residing at Apt. 117 -
1650 West 13th Avenue, Vancouver, certify that:

I am a graduate Mining Engineer, University of
Toronto, 1923, with a B.A.Sc. degree.

I have been employed continuously since graduation,
in all phases of mining, except for three years during
the last war, when I was an engineering officer with
the R.C.A.F.

I am a Life Member of the Association of Professional
Engineers of British Columbia and a Member of
the Canadian Institute of Mining and Metallurgy.

I have not inspected the work performed by Mr.
Sostad and Mr. Smestad on the ground. The report is based
on information, plans and maps supplied by them and a report
written by Alfred R. Allen, P. Eng., dated November 30th,
1969.

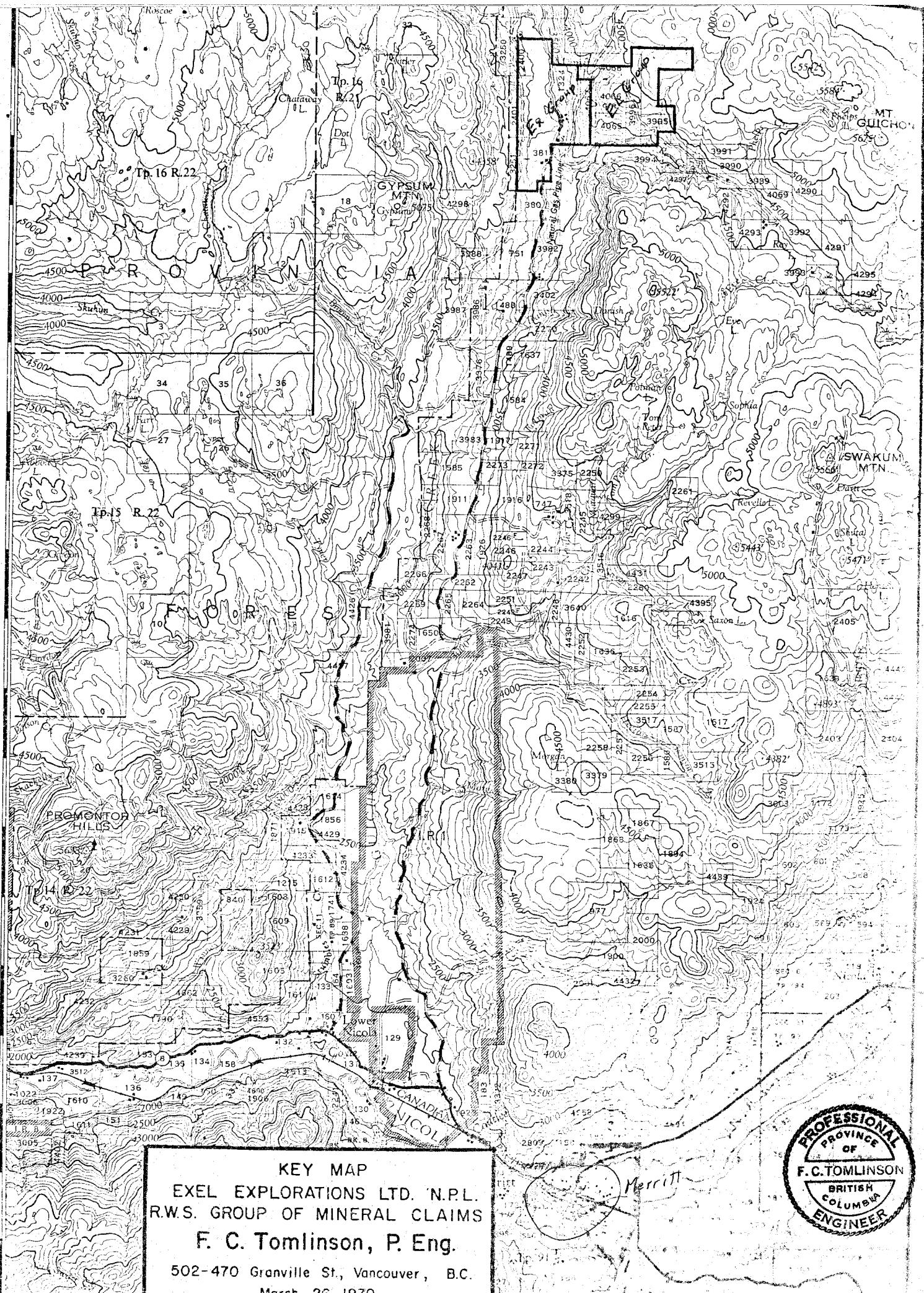
A copy of Mr. Allen's report should accompany
this report.

I have no direct or indirect interest in the RWS
group of mineral claims and hold none of the securities of
the Exel Explorations Ltd.

DATED at Vancouver, B. C., this twenty-sixth day
of March, A.D. 1970.

F. C. Tomlinson
F. C. Tomlinson, P. Eng.





EL Group
37 Claims

37 Chans

EX GROUP P-40 Claims															
281	36554	36554	42440	TOAD	42440	M	42436	TOAD	42426	TOAD	42411	M	42406	TOAD	42407
4LM	42810	42811	42440	TOAD	42440	M	42436	TOAD	42426	TOAD	42411	M	42406	TOAD	42407
5	42811	M	42440	TOAD	42440	M	42436	TOAD	42426	TOAD	42411	M	42406	TOAD	42407
283	36575	36575	42442	TOAD	42442	M	42435	TOAD	42428	TOAD	42409	M	42408	TOAD	42409
4LM	42812	M	42442	TOAD	42442	M	42435	TOAD	42428	TOAD	42409	M	42408	TOAD	42409
5	42812	M	42442	TOAD	42442	M	42435	TOAD	42428	TOAD	42409	M	42408	TOAD	42409
284	36574	36551	42433	TOAD	42433	M	42427	TOAD	42427	TOAD	42409	M	42408	TOAD	42409
4LM	42813	M	42433	TOAD	42433	M	42427	TOAD	42427	TOAD	42409	M	42408	TOAD	42409
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4LM	42814	M	40068	RWS	3981A	89842	39840	TOAD	40054	40052	40050	40048	40046	40044	40042
11	42814	M	40068	RWS	3981A	89842	39840	TOAD	40054	40052	40050	40048	40046	40044	40042
455	36582	36573	40069	RWS	3981B	89843	39841	39839	39837	39836	40055	40053	40051	40049	40047
4LM	42815	M	40069	RWS	3981B	89843	39841	39839	39837	39836	40055	40053	40051	40049	40047
13.	42815	M	40069	RWS	3981B	89843	39841	39839	39837	39836	40055	40053	40051	40049	40047
A	36539	36540	40044	RWS	40047	8040	40038	40036	40034	40032	40030	40028	40026	40024	40022
4LM	42816	M	40044	RWS	40047	8040	40038	40036	40034	40032	40030	40028	40026	40024	40022
45	51	52	40044	RWS	40047	8040	40038	40036	40034	40032	40030	40028	40026	40024	40022
A	21004	21005	40025	RWS	40039	8037	40037	40035	40033	40031	40029	40027	40025	40023	40021
4LM	42817	M	40025	RWS	40039	8037	40037	40035	40033	40031	40029	40027	40025	40023	40021
47	49	50	40025	RWS	40039	8037	40037	40035	40033	40031	40029	40027	40025	40023	40021
B	21014	21003	40012	RWS	39951	39953	39955	39957	39959	39961	39963	39965	39967	39969	39971
4LM	42818	M	40012	RWS	39951	39953	39955	39957	39959	39961	39963	39965	39967	39969	39971
51	93	95	40012	RWS	39951	39953	39955	39957	39959	39961	39963	39965	39967	39969	39971
C	21015	21004	40015	RWS	39952	39954	39956	39958	39960	39962	39964	39966	39968	39970	39972
4LM	42819	M	40015	RWS	39952	39954	39956	39958	39960	39962	39964	39966	39968	39970	39972
51	93	95	40015	RWS	39952	39954	39956	39958	39960	39962	39964	39966	39968	39970	39972
D	20629	29670	40016	RWS	39953	39967	39969	39971	39973	39975	39977	39979	39981	39983	39985
DUDE	ED5	ED5	40016	RWS	39953	39967	39969	39971	39973	39975	39977	39979	39981	39983	39985
667	20629	29670	40017	RWS	39967	39969	39971	39973	39975	39977	39979	39981	39983	39985	39987
DUDE	ED5	ED5	40017	RWS	39967	39969	39971	39973	39975	39977	39979	39981	39983	39985	39987
668	20628	29671	40018	RWS	39968	39968	39970	39972	39974	39976	39978	39980	39982	39984	39986
DUDE	ED5	ED5	40018	RWS	39968	39968	39970	39972	39974	39976	39978	39980	39982	39984	39986
669	20628	29671	40019	RWS	39968	39968	39970	39972	39974	39976	39978	39980	39982	39984	39986
D	20628	29671	40020	RWS	39981	39981	39983	39985	39987	39989	39991	39993	39995	39997	39999
DUDE	ED5	ED5	40020	RWS	39981	39981	39983	39985	39987	39989	39991	39993	39995	39997	39999
670	20469	20573	40022	RWS	39982	39982	39984	39986	39988	39990	39992	39994	39996	39998	39999
BLU	4EF	4EF	40022	RWS	39982	39982	39984	39986	39988	39990	39992	39994	39996	39998	39999
H.Y.	HEART	4EF	40022	RWS	39982	39982	39984	39986	39988	39990	39992	39994	39996	39998	39999
D	20468	20572	40024	RWS	39985	39997	39999	40001	40003	40005	40007	40009	40011	40013	40015
DUKE	4EF	4EF	40024	RWS	39985	39997	39999	40001	40003	40005	40007	40009	40011	40013	40015
671	20468	20572	40025	RWS	39985	39997	39999	40001	40003	40005	40007	40009	40011	40013	40015
D	20469	20573	40026	RWS	39986	39998	40000	40002	40004	40006	40008	40010	40012	40014	40016
DUKE	4EF	4EF	40026	RWS	39986	39998	40000	40002	40004	40006	40008	40010	40012	40014	40016
672	20469	20573	40027	RWS	39986	39998	40000	40002	40004	40006	40008	40010	40012	40014	40016
D	20468	20572	40028	RWS	39987	39999	40001	40003	40005	40007	40009	40011	40013	40015	40017
DUKE	4EF	4EF	40028	RWS	39987	39999	40001	40003	40005	40007	40009	40011	40013	40015	40017
673	20468	20572	40029	RWS	39987	39999	40001	40003	40005	40007	40009	40011	40013	40015	40017
D	20469	20573	40030	RWS	39988	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40030	RWS	39988	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
674	20469	20573	40031	RWS	39988	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20468	20572	40032	RWS	39989	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40032	RWS	39989	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
675	20468	20572	40033	RWS	39989	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20469	20573	40034	RWS	39989	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40034	RWS	39989	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
676	20469	20573	40035	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20468	20572	40036	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40036	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
677	20469	20573	40037	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20468	20572	40038	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40038	RWS	39990	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
678	20571	20571	40039	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20571	20571	40040	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40040	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
679	20571	20571	40041	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20571	20571	40042	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40042	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
680	20571	20571	40043	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20571	20571	40044	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40044	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
681	20571	20571	40045	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
D	20571	20571	40046	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
DUKE	4EF	4EF	40046	RWS	39991	39999	40002	40004	40006	40008	40010	40012	40014	40016	40018
682	20571	2057													

LOCATION PLAN AND GROUPING
EXEL EXPLORATIONS LTD. N.
R.W.S. GROUP OF CLAIMS
TO ACCOMPANY REPORT BY
F. C. Tomlinson, P. Eng.

502-470 Granville St., Vancouver, B.C.

MAGNETOMETER CALCULATION SHEET

NEWCASTLE EXPLORATIONS LTD.

818 - 510 W. Hastings Street, Vancouver, B.C. Canada

PROPERTY EXEL

INSTRUMENT M.E.-L-603-202
(MAKE, MODEL & SERIAL NO.)

LINE & CONTROL STATION(S) 56+01 N. E

OPERATOR G. LeBihan

DATE March 8, 1922

B.L. 36+00 N

PAGE 26 OF ----- PAGES

<u>Station</u>	<u>Reading</u>	<u>Time</u>	<u>Constant</u>	<u>Constant ± Reading</u>	<u>Diurnal Time Correction</u>	<u>Corrected Reading</u>	<u>Remarks</u>
15	-180	9:59 +1000	+ 820	0	+ 820		Creek.
16	-135	10:05 +1000	+ 865	0	+ 865		
17	-110	9:59 +1000	+ 890	0	+ 890		
18	-285	10:02 +1000	+ 715	+ 5	+ 720		
19	+130	10:07 +1000	+ 1130	+ 5	+ 1135		
20	+120	10:08 +1000	+ 1120	+ 5	+ 1125		
	+145	10:10 +1000	+ 1145	+ 5	+ 1150		
	+15	10:14 +1000	+ 1015	+ 5	+ 1020		
22	-18	10:19 +1000	+ 960	+ 10	+ 970		
23	+265	10:22 +1000	+ 1265	+ 10	+ 1275		
	-283	10:25 +1000	+ 73	+ 15	+ 725		
	+110	10:35 +1000	+ 1110	+ 15	+ 1125		
	+70	10:37 +1000	+ 1070	+ 15	+ 1085		
	+95	10:39 +1000	+ 1045	+ 15	+ 1055		
24	-100	10:41 +1000	+ 950	+ 10	+ 960		
25	+155	10:45 +1000	+ 1155	+ 10	+ 1165		
	-110	10:58 +1000	+ 890	+ 5	+ 895		
	+30	11:00 +1000	+ 1030	0	+ 1030		
	+30	11:02 +1000	+ 1030	0	+ 1030		
	-80	11:05 +1000	+ 920	0	+ 920		
	-50	11:12 +1000	+ 950	0	+ 950		
3	-10	11:14 +1000	+ 990	0	+ 990		
27	+5	11:16 +1000	+ 1005	+ 5	+ 1010		2000 ft.
40	-25	11:19 +1000	+ 975	+ 5	+ 980		
	-15	11:21 +1000	+ 985	+ 10	+ 995		
70	-70	11:22 +1000	+ 930	+ 10	+ 940		
	+30	11:24 +1000	+ 1030	+ 15	+ 1045		
42	-15	11:26 +1000	+ 985	+ 15	+ 990		
44	-10	11:28 +1000	+ 990	+ 20	+ 1010		
	+40	11:30 +1000	+ 1040	+ 20	+ 1060		
	-300	11:32 +1000	+ 765	+ 20	+ 785		



ADDENDA TO REPORT ON
MAGNETOMETER SURVEY
DONE BY
HELGE SMESTAD AND LARRY SOSTAD
ON EX AND EL GROUPS OF
RWS MINERAL CLAIMS
DATED MARCH 26, 1970
BY
F.C. TOMLINSON, P. ENG.

Helge Smestad reports that he took a couple of specimens from a mineralized outcrop on Line 60+000 at 6,300 feet west of the base line. The specimen retained by him and Sostad ran over 1% Cu. The one assayed by Mr. Ken Vincent assayed 2% Cu.

The boundary line of the property must be near where the specimens were taken and in an area of high magnetometer readings up to 4,500 gammas. The high readings over 2,000 gammas extend to the shore of Mammit Lake on line 44+000 north 5,000 feet west. These comparatively high readings should be on claims RWS 63 or 66 depending on the location of the boundary and overlap of staking, if any.

The location line between MLM 59 and 60 will have to be located and 1,500 feet measured presumably to the left (east) to locate the boundary.



The assays on the specimens are interesting but do not mean much until the boundary and its bearing is established.

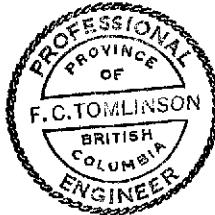
High magnetometer readings over 2,000 gammas on lines 20+00, 24+00 and 28+000 north at around 5,000 feet west. These readings should be on claims RWS 65, 66, 67 or 68 depending on the boundary location of MLM 95 and 96, which is presumably prior staking.

The magnetic lows, less than 400 gammas and minus readings, combined with a sharp drop from high readings on lines 16+00N to 44+00N, from 1,400 feet west on line 16+00 to 1,700 west on line 44+000, may be significant and warrant further investigation in the form of prospecting, soil sampling or trenching, depending on the depth of overburden, etc.

This area is east of Mammit Lake, presumably on RWS 3, 4, 5 and 6 claims according to the overlay plans and between elevations of 3,100 and 3,500 feet.

F.C. Tomlinson

F. C. Tomlinson, P.Eng.



EXEL EXPLORATIONS LTD. (N.P.L.)

MAGNETOMETER SURVEY

MAMIT LAKE PROPERTY

HIGHLAND VALLEY (50 22 N 120 48 W)

NICOLA MINING DIVISON



0 500 1000 2000

Scale in feet

To accompany report by
F.C. TOMLINSON, P.Eng.

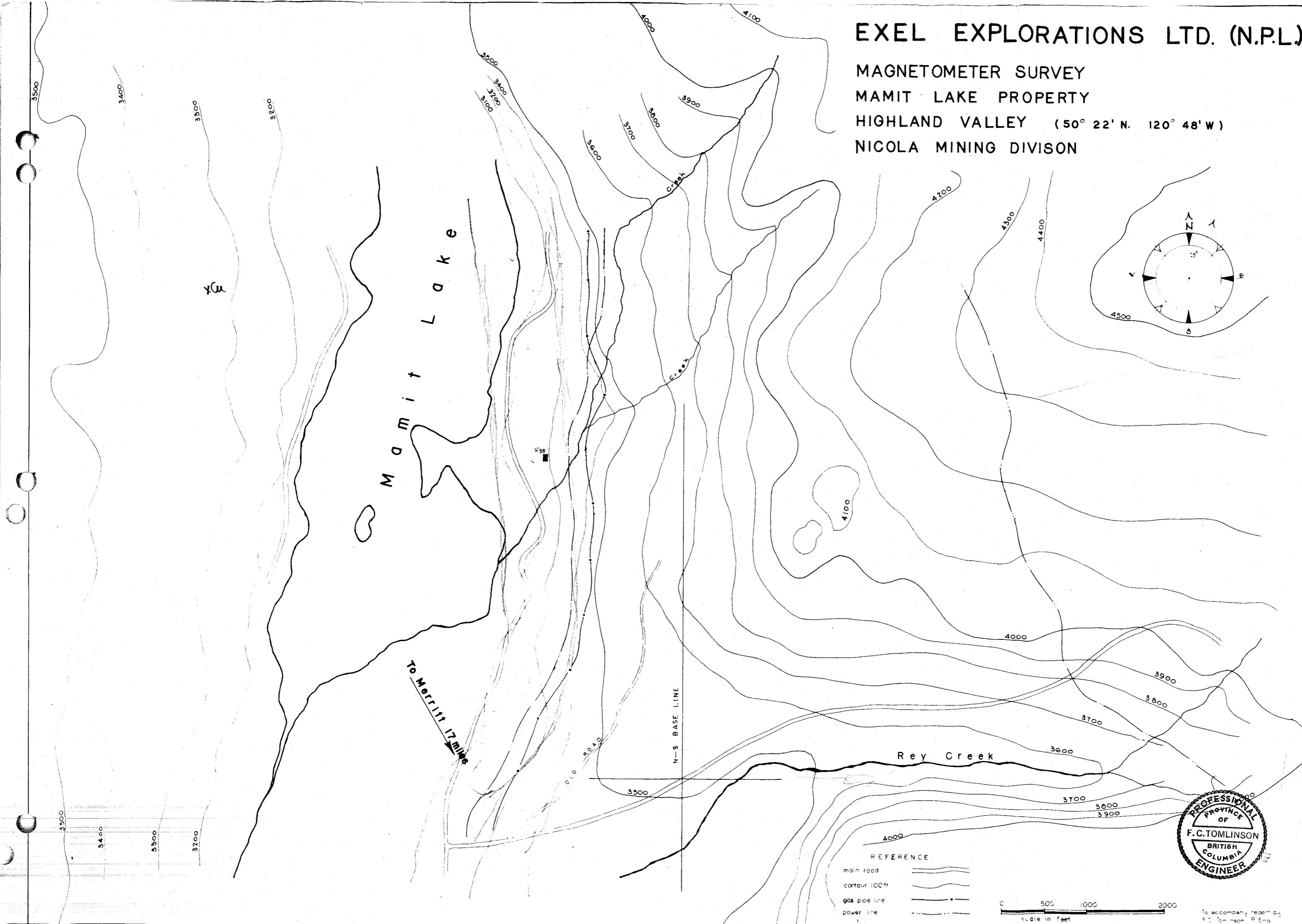
EXEL EXPLORATIONS LTD. (N.P.L.)

MAGNETOMETER SURVEY

MAMIT LAKE PROPERTY

HIGHLAND VALLEY (50° 22' N. 120° 48' W)

NICOLA MINING DIVISION



To accompany report by
F.C. Tomlinson P.Eng.

EXEL EXPLORATIONS LTD. (N.P.L.)

MAGNETOMETER SURVEY

MAMIT LAKE PROPERTY

HIGHLAND VALLEY (50° 22' N. 120° 48' W)

NICOLA MINING DIVISION



All magnetometer readings are in gammas at 100' intervals.
Instrument used SHARPE M.F.I.

Date: 15 3 70

0 500 2000
Scale in feet



To accompany report by
F.C. Tomlinson, Eng.

VALUATION OF WORK

Mar 26 1970

EX & EL Mineral Claim Groups
 Geophysical Survey
 Nicola Mining Division
 Mamit Lake Area Highland Valley

Line cutting and Magnetometer Survey took place between Feb 24 - Mar 9 1970
 The writer along with 4 other men : 1. H. Smestad - Magnetometer Operator
 2. G. LeBrun - Magnetometer Operator & Line cutter
 3. B. Happell - Magnetometer Operator & Line cutter
 4. C. LeBrun - Line cutter

came directly from Vancouver arriving in Merritt 24 FEB 70. Food and Accommodation was supplied. Food and Accommodation was not supplied to men hired in Merritt.

WAGES

L. SOSTAD @ \$80 da Feb 24 - Mar 10 -----	\$ 1200
H. Smestad @ \$50 da Feb 24 Mar 10 -----	\$ 750
C. LeBrun @ \$40 da Feb 24 - Mar 10 -----	\$ 600
G. LeBrun @ \$40 da Feb 24 Mar 1 -----	\$ 240
G. LeBrun @ \$50 da Mar 2 Mar 9 -----	\$ 400
B. Happell @ \$40 da Feb 24 Mar 1 -----	\$ 240
B. Happell @ \$50 da Mar 2 Mar 9 -----	\$ 400
L. McLelland @ \$40 da Feb 28 Mar 1 -----	\$ 80
K. Isitt @ \$40 da Feb 28 Mar 1 -----	\$ 80
K. White @ \$40 da Feb 27 Mar 1 -----	\$ 120
L. Coutlee @ \$40 da Feb 27 Mar 1 -----	\$ 120
D. Charters @ \$40 da Mar 3 Mar 7 -----	\$ 200
R. Bauer @ \$40 da Mar 3 Mar 7 -----	\$ 200
R. Burnett @ \$40 da Mar 4 Mar 5 -----	\$ 80
A. Cox @ \$40 da Mar 4 Mar 5 -----	\$ 80
Bernard McLeod @ \$40 da Feb 26 Mar 5 -----	\$ 320
Antoine Moses @ \$40 da Feb 26 Mar 5 -----	\$ 320
W. Barnes @ \$50 da --Mar 15--Mining Engineer--Diurnal Variation Calcs-----	\$ 50
L. Sostad @ \$50 da --Mar 15 Mar 17-----Diurnal Variation Calcs-----	\$ 150
P. Langrick-----Professional Draftsman --Drafts Maps-----	\$ 200

LIVING EXPENSES

Accommodation 5 Men @ \$4 da -----	\$ 280
Meals 5 Men @ \$6.50 da-----	\$ 455

EQUIPMENT

Flagging--@ \$1 Roll-----	\$ 25
Axes----@ \$6 each (10)-----	\$ 60
Chains----@ \$20 each (6)-----	\$ 120
Power Saws@ \$ 5 da (6)-----	\$ 420
Trucks Two 4 Wheel Drive Power Wagons @ \$25 da-----	\$ 750
Magnetometers One-Feb 24-Mar 10 Two-Mar 1-Mar 10 --Coast Eldridge-----	\$ 498
Magnetometer One Mar 1-Mar 10 -----R. Trepanier-----	\$ 132
TOTAL <u>\$8570</u>	

SGD:

(L.R.W. SOSTAD)

Declared before me at the *City*
Vancouver, in the
 Province of British Columbia, this 31.

March, 1970, A.D.

A Commissioner for taking Affidavits within British Columbia or
 A Notary Public in and for the Province of British Columbia.