

3677

NORTHERN DEEP LEVEL MINES LTD. (N.P.L.)

Magnetic and Soil Surveys

on

OLD NICK AND UR CLAIMS

82 E 13 E

Department of  
Mines and Geographical Resources  
ASSESSMENT REPORT  
3677

May 29, 1972

Egil Livgard,

B. Sc. P. Eng.

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## INTRODUCTION

This report is an outline of and an interpretation of a magnetic and a geochemical soil survey carried out on part of the UR and Old Nick Claims of Northern Deep Level Mines Ltd. (N.P.L.) by Livgard Consultants Ltd. during April 1972.

The ground is well known to the writer from numerous visits in the past and from reports on the work carried out by Newmont Mining Corp. of Canada Ltd. in 1967 on nearby mineralized areas.

### SUMMARY

Magnetic and soil surveys were carried out over 19 of the 57 Old Nick and UR claims of Northern Deep Level Mines Ltd. (N.P.L.) during April 1972. The property is located east of Bridesville, 23 miles east of Osoyoos, B. C. in rolling hills of grazing land and open forest.

The Old Nick Claims were staked in 1966 and exploration since then has outlined a major deposit of low grade nickel mineralization in metasediments of the anarchist formation. The nickel mineralization is amenable to bio-leaching techniques of extraction and extensive work is planned to examine the feasibility of this approach. The present survey was carried out east of this area to look for other mineralized zones.

An 18 mile grid system was put in with compass and chain and stations established every 200 feet on a line spacing of 400 feet. Soil samples were taken at each station and magnetic readings were taken at each station and at intermediate points halfway between the stations along the lines. The analytic results and the magnetic readings were plotted on separate maps of 1 inch to 400 ft. and contoured. The magnetic map pointed out probable structural features and rock type divisions, while the soil survey map outlined an anomaly 2400 X 1000 feet of high nickel values. The magnetic map shows no special response over the soil anomaly and the anomaly is thought to represent low grade nickel mineralization in a metasedimentary host.

### LOCATION AND ACCESS

The property lies mainly immediately south of the southern transprovincial Highway 3 east of the village of Bridesville, 23 miles east of Osoyoos in the Okanagan. It is on mapsheet 82E/3E at approximately 49°02'N and 119°207'W in the Greenwood Mining Division.

Access to the claims is good via Highway 3 and numerous farm and logging roads.

### TOPOGRAPHY AND CLIMATE

The area is glaciated and consists of low rolling hills of farmland and forest. Rock Creek cuts through the property and has formed a 200 foot deep steep-sided canyon. It drains east into Kettle River. Elevation in the area is about 3000 to 3600 feet.

The area is arid with about 18 inches of precipitation annually. The temperature range is from about 80° - 90°F in summer to 0 - 20° in winter. The snow cover is relatively light.

### PROPERTY

The property consists of 57 contiguous claims. The core of the claims, named Old Nick, were staked in 1966 and have been surveyed so their exact location is known. The other claims named UR were staked subsequent to this and have not been surveyed but can be placed relatively accurately in relation to the surveyed claims.

### HISTORY

The prospector, Mr. Brian Fenwick-Wilson, first staked the property in 1955 and subsequently restaked the ground in 1966. The mineralization of interest was at the time exposed in old trenches and a 10 - 15 foot deep shaft. Since that time, Utica Mines Ltd., Nickel Ridge Mines Ltd. and Newmont Mining Corp. have carried out magnetic air and ground surveys, geochemical soil surveys for Ni, Cu, Zn, extensive bulldozer trenching, geological mapping, about 3000 ft. of percussion drilling and about 2500 feet of diamond drilling. All the ground surveys, trenching and drilling was carried out on and around mineralization located on Old Nick # 1 and 2 just to the northwest of the surveys described in this report. The work located and partly outlined a large deposit of low grade nickel mineralization in metasediments. The mineralization may be economically amendable to bio-leaching extraction techniques and the company is continuing its work on the property.

## GEOLOGY

The claims are underlain by the Anarchist group of permo-triassic rocks consisting of greenstones, quartzites, greywacke and limestone. The rocks have been tightly folded on a regional scale on a northwest trend, while locally a northeast trend is apparent. These rocks have been intruded by the cretaceous Nelson intrusives just north of the property and by ultra basic pluggs (early phase of Nelson intrusive?) on the claim ground. These intrusives appear to be of particular interest as regards the mineralization. The basic rocks may have been the original host of the nickel while the later acid intrusion may have mobilized the nickel which then migrated into the nearby quartzites or meta-sediments.

## SURFACE

The grid area surveyed consists of forest covered rolling hills of gentle relief. A stream draining toward the northeast cuts the area. Low areas along the creek exhibit dense brush growth while the higher hills are covered with open pine growth. The soil in the Creek Valley has intermingled silt and organic material (line 2800E) while higher slopes show a poorly developed soil horizon and areas of glacial till.

GRIDSYSTEM

A baseline was established in a direction  $S43^{\circ}E$  with a Suunto compass and chain. The writer considers the Suunto compass admirable for this type of work as it can, with a little care, but not much time loss, be read to better than  $\frac{1}{2}$  a degree and thus lead to a maximum discrepancy of about 10 feet per 1000 feet of line.

The baseline was flagged and stations established every 400 feet with the chain, starting at zero on the west end and extending to 7600 feet east. Crosslines or survey lines were run northerly and southerly at right angles to the baseline every 400 feet again with Suunto compass and chain, and stations established every 200 feet. On the survey lines, occasional steep slopes and insufficient slope adjustment caused errors of about 50 feet over 5000 feet as inclinations were read, with a suunto inclinometer, on some lines and projected to parallel lines. The gridsystem covers UR claims # 52 - 64 and Old Nick # 13, 17, G and part of Old Nick # 1, 20, F or a total of 97000 feet on the claim ground.



MAGNETIC SURVEYInstrument:

The instrument used for the survey was a Sharp Magnetometer PMF-3 Serial No. 41018. The instrument has the following scales which can be read as follows: 3K scale 3000 gamma maximum - read to nearest 5 gamma, 10K scale 10000 gamma maximum - read to 10 gamma, 30K scale 30000 gamma maximum read to 50 gamma, 100k scale 100000 gamma maximum - read to 100 gamma, 300k scale 300000 gamma maximum - read to 500 gamma. The reading of the 3k scale to 5 gamma is somewhat uncertain and the writer estimates a  $\pm 5$  gamma error in this scale and correspondingly higher errors in the other scales. The instrument is very sensitive to leveling and considerable care has to be taken that the instrument is perfectly level at each reading.

Procedure:

Latitude adjustment was made at station 7600E - 5400N on the northeast corner of the survey near the access road, and this was designated the base. The instrument was adjusted to read zero gamma at this point and the station was read twice daily to check the diurnal variation at about 9:00 A.M. and 4:00 P.M. To further check diurnal variation, all the stations on the baseline were read first and checked against the base station. These stations then served as secondary base stations to check diurnal variation several times daily.

Readings:

Readings were taken at each measured 200 foot station on the cross lines and at points half way between all stations established by pacing. Readings were taken at waistheight facing northeast all times. The instrument had to be carefully leveled before each reading.

Each reading was adjusted by the diurnal variation plus 1000 gamma, to render all readings positive, and plotted on a map with scale 1 inch to 400 feet.

Interpretation:

The map with the magnetic readings has been contoured at 700, 800, 900, 1000, 1100, 1200 and 1400 gammas. From the distribution of magnetic intensity it appears that the creek which crosses the property approximately along the line 2800E occupies a fault valley. The displacement on this projected fault may be on the order of 800 feet horizontally in a left handed movement. Faulting may also have taken place along the creek branch draining north. To the west of the creek, a change in rock type may occur approximately along the baseline. Another possible change in rock type lies on line 12E-18S, 16E -17S, 20E - 16S, 24E - 15S. On the east side of the creek, this change appears to have been offset by the fault to a line 28E - 8S, 32E - 8S, 36E - 8S. From geologic evidence, it seems likely that the higher magnetic intensity south of these lines is caused by a finegrained chloritic greenstone which contains specks of magnetite.

Interpretation cont.:

A magnetic high on lines 52E 28 to 32N, 56E 20 to 28N, 60E 17 to 24N, appears from geological evidence, to have been caused by an intrusive body of dioritic rock. To the south and west of this intrusive, limestone outcrops were noted in the field. The limestone can not be picked out on the map as having given any change in magnetic variation and no contact metamorphic area, which might be expected to be of high magnetic intensity was noted. The northeastern part of the map shows little magnetic variation and is probably underlain by a relatively uniform rocktype. Scattered high readings of small extent throughout the map are thought to be due to basic dykes with magnetite or pyrrhotite. These are known to occur west of the map area. A magnetic high area laying along the creek on lines 44# - 16N, 48E - 9N, 52E - 4N, may also be a basic dyke with magnetite-pyrrhotite, particularly as the soil survey showed no increase in nickel over this area. The soil survey anomaly described later, does not correlate well with the magnetic map except that the highest soil values correspond to a small area of high magnetic intensity. It is thought that the mineralization giving the soil nickel anomaly is therefore found in metasediments such as is found west of the grid area, rather than in ultrabasic rocks. Mineralization found west of the present grid has also responded rather poorly (Newmont) to a magnetic survey so the magnetic response or lack of it is not necessarily detrimental, rather the opposite, in that the mineralization may be found in more easily treated metasediments rather than ultrabasic rocks.

## GEOCHEMICAL SURVEY

### Soil Sampling:

Soil samples were taken at each 200 foot station with a small shovel. The depth of sampling ranged from 6 inches to about 18 inches and the desired B soil horizon was obtained in most cases although poor soil development, thin soil cover, silting and glacial cover at some individual sample points render the value of these samples suspect.

The samples were collected in kraft sample bags and numbered with the station number and sent to Fraser Laboratories Ltd., 1175 West 15th St., North Vancouver for analysis.

### Analytical Method for Soils:

The soils were dried and sieved through an eighty mesh screen and a 0.50 gram sample of -80 mesh portion was taken.

This sample was digested for two hours with a hot mixture of 2 mls nitric acid and 4 mls perchloric acid.

Each sample was diluted to 25 mls with demineralized water and determined against pure standards of nickel by atomic absorption spectrophotometry.

Interpretation:

A value distribution curve shows a peak in the 10 to 30 ppm range and these values are considered representative of back ground.

There is a well defined break in the curve at 70 ppm and values above this are probably anomalous.

The soil values were plotted on a map, scale 1 inch to 400 feet, and countours drawn at 90 ppm and 120 ppm.

One anomalous area was outlined on lines 3200E, 3600E and 4000E extending from about 600 feet south of the baseline to about 1800 feet north of the baseline. In comparison to anomalies over known mineralization west of the present grid (Newmont). This anomaly is equal or larger in extent but does not have comparable high values.

The southern part of the anomaly lies in an area where the soil cover was thought to be light and not transported and therefore may conform relatively closely to the mineralization causing it. On the northeastern part of the anomaly in the area of the creek, the soil cover was thought to be thick while north of the creek the soil was sandy and thought to be composed of fluvo-glacial material. It is somewhat surprising that anomalous values were found in this material but it strengthens the anomaly.

Interpretation cont.:

The mineralization causing the anomaly may, due to its relatively low values, be low grade or scattered but it decidedly requires further examination.

As the anomaly is elongated parallel to the survey lines, either intermediate soil survey lines or cross lines 90° to the present lines should be run to further outline the anomaly.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Egil Livgard".

Egil Livgard, B. Sc., P. Eng.  
LIVGARD CONSULTANTS LTD.

# TOTAL NICKEL HISTOGRAM

VALUE DISTRIBUTION CURVE

PEAK 11-30 PPM BACKGROUND

70 PPM LOWER LEVEL  
OF INTEREST

NUMBER OF SAMPLES

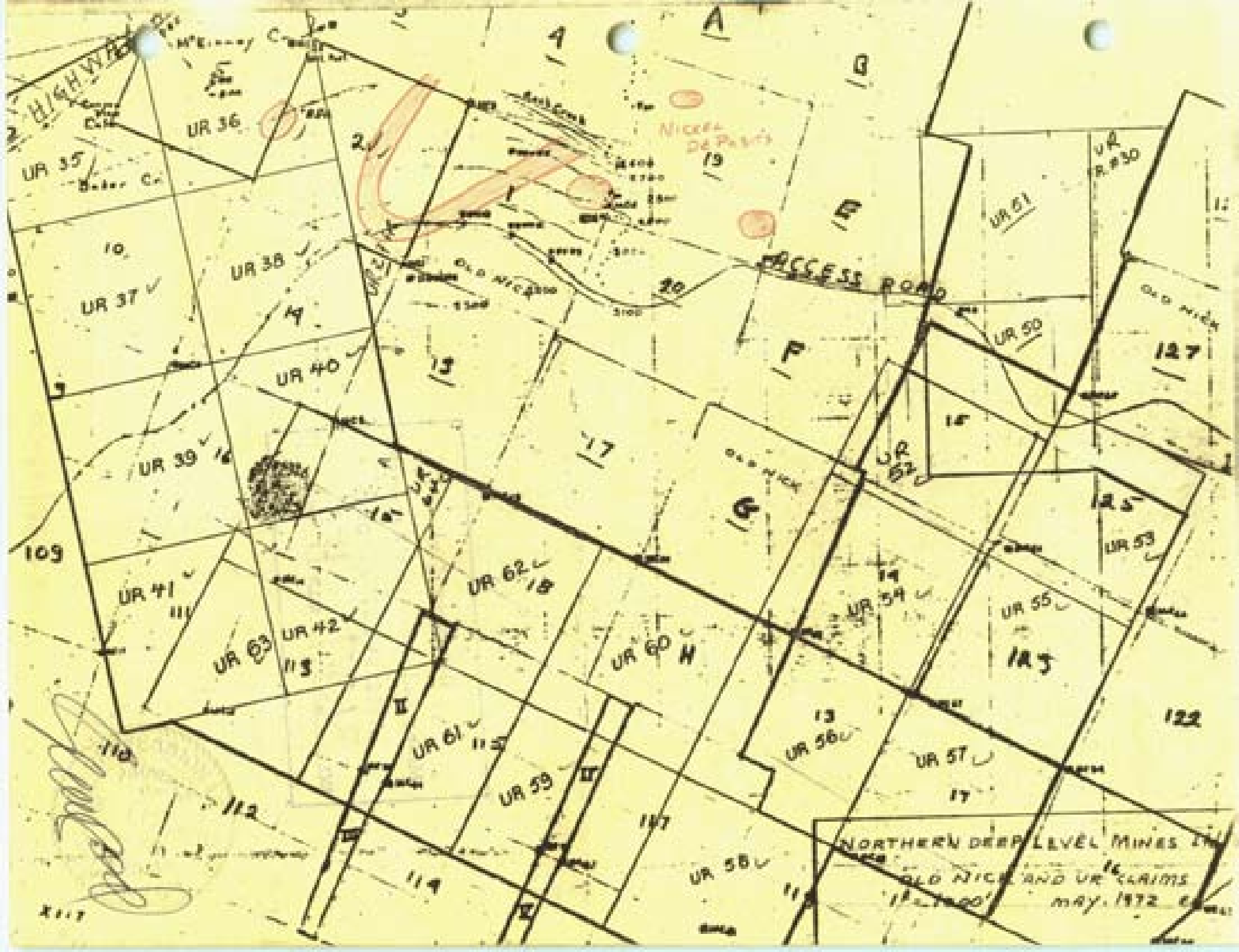
180  
160  
140  
120  
100  
80  
60  
40  
20

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

TOTAL NICKEL (PPM)

Department of  
Mineral and Petroleum Resources  
APPENDIX REPORT  
**3677 #1**

*Ed*



NORTHERN DEEP LEVEL MINES IN  
OLD NICK AND UR CLAIMS  
MAY 1972



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3677 MAP # 2

REFERENCES

G. S. C. Map 15 - 1961

Newmont Report: Geology, Geochemistry, and Geophysical  
Reports on Exploration of the Nickelridge  
Property, Bridesville, British Columbia,

by

J. A. Cooper,

W. M. Dolan,

C. P. Costin,

May 7, 1968.

**LIVGARD CONSULTANTS LTD.**

684-7313  
1331 Marine Building  
Vancouver 1, B.C.

Northern Deep Level Mines Ltd. (N. P.L.),  
1300 Marine Building,  
355 Burrard Street,  
Vancouver 1, British Columbia.

Statement  
**CONSULTING SERVICES**

Invoice Date: May 30, 1972.

DECLARATION OF COSTS

Magnetic and Geochemical Survey - UR and Old  
Nick Claims, Northern Deep Level Mines Ltd. -  
May 1972. Field work April 16 to May 1, 1972.  
Office work May 1 - 5, 28, 29th.

Contract Price (filed as assessment work)  
Gridsystem \$30.00/Mile @ 17 miles  
Magnetic survey \$70.00/mile @ 17 miles  
Geochemical Survey \$150.00/mile @ 17 miles  
Total price

\$ 510.00  
1190.00  
2550.00  
\$4250.00

Work carried out:

Grid system 23½ miles  
Magnetic survey 23½ miles  
Geochemical survey 20½ miles

Expences:

Accommodation and Food April 16 - 30th	\$ 210.00
Truck Rental (4 X 4) \$25.00/Day for 16 days	400.00
Gas	62.00
Drafting	150.00
Flagging, bags, etc.	40.00
General expences - mag. rental, batteries, etc.	125.60
Wages - Patric Smith - April 19 - 29th	250.00
John Haggart - April 19 - 29th	250.00
Mike Mooney - April 24, 25, 30, May 1.	100.00
Patric Smith - April 24, 25, 30, May 1	100.00

Geochemical Analysis	572.40
E. Livgard - April 16 - 30, May 1 - 5, 28, 29	1990.00
Contract:	<u>\$4250.00</u>

E. & O.E.

SERVICE CHARGE OF 1½% PER MONTH CHARGED ON OVERDUE ACCOUNTS.  
ACCOUNTS OVERDUE AFTER 10TH OF MONTH FOLLOWING DATE OF INVOICE.

LIVGARD CONSULTANTS LTD.

1331 MARINE BUILDING

VANCOUVER 1, B.C.

EGIL LIVGARD, B.Sc., P.Eng

CERTIFICATE

I, EGIL LIVGARD, with business and residential addresses in Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geological engineer.
2. I am a graduate of the University of British Columbia, B. Sc., 1960, Geological Sciences.
3. I am a Member of the Association of Professional Engineers of the Province of British Columbia.
4. From 1960 to the present, I have been engaged in mining and exploration in Canada and Norway. I was employed by the following parties:

Asbestos Corporation (Expl.) Ltd.

Keno Hill Mines Ltd.

Norwegian Geologic Survey

Copper Rand Mines

Utica Mines Ltd.

S & N Mine Management Consultants Ltd.

Livgard Consultants Ltd.

5. I have no interest in the properties described herein or the Company holding these properties.

DATED at Vancouver, British Columbia, this 29th day of  
May, 1972.

  
Egil Livgard, B.Sc., P. Eng.  
Vancouver, British Columbia.

LINE 0

ADJUSTMENT (10 - 1.6)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>
0	1.6	1000	0	1.6	1000
1N	.55	895	1S	-.45	795
2	1.10	950	2	.20	860
3	.95	935	3	1.00	940
4	1.30	970	4	1.00	940
5	1.10	950	5	1.15	955
6	1.05	945	6	1.55	995
7	.70	910	7	1.80	1020
8	1.90	1030	8	1.30	970
9	1.70	1010	9	.95	935
10	2.85	1125	10	1.00	940
11	2.60	1100	11	1.40	980
12	3.30	1170	12	1.45	985
13	2.70	1110	13	.40	880
14	2.25	1065	14	.45	885
15	2.30	1070	15	.40	880
16	2.10	1050	16	0	840
17	1.75	1015	17	-.10	830
18	1.25	965	18	.30	870
19	1.40	980	19	2.20	1060
20	2.05	1045	20	2.05	1045
21	2.10	1050			
22	2.05	1045			
23	2.55	1095			

*CU*

LINE 400E

ADJUSTMENT (10 - 1.0)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	2.10	690	0	-2.10	690
1N	-.10	890	1S	6.90	1590
2	.50	950	2	.95	995
3	1.30	1030	3	.20	920
4	1.95	995	4	1.10	1010
5	.50	950	5	0	900
6	1.90	1090	6	.85	985
7	-.15	885	7	1.20	1020
8	0	900	8	0	900
9	1.20	1020	9	1.20	1020
10	2.95	1195	10	.90	990
11	1.10	1010	11	.60	960
12	2.90	1190	12	-.15	885
13	3.20	1220	13	-.65	835
14	2.00	1100	14	1.00	1000
15	.55	955	15	.10	910
16	1.45	1045	16	-.05	895
17	1.30	1030	17	-.90	810
18	1.15	1015	18	1.00	1000
19	1.20	1020	19	1.65	1065
20	-.80	820	20	.35	935
21	1.00	1000			
22	.90	990			
23	1.50	1050			
24	1.35	1035			
25	1.65	1065			
26	1.30	1030			
27	2.60	1160			
28	2.00	1100			
29	2.90	1190			
30	2.20	1120			

*Geo*

LINE 800E

ADJUSTMENT (10 - 2.0)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>
0	-2.1	590	0	-2.1	590
1N	1.90	990	1S	-.15	785
2	1.20	920	2	.85	885
3	1.30	930	3	1.40	940
4	1.30	930	4	1.50	950
5	1.85	985	5	1.55	955
6	1.50	950	6	1.10	910
7	1.10	910	7	1.50	950
8	1.55	955	8	1.85	985
9	1.55	955	9	1.30	930
10	1.65	965	10	1.70	970
11	2.10	1010	11	1.95	895
12	3.70	1170	12	-.55	745
13	3.05	1105	13	.70	870
14	3.15	1115	14	.50	850
15	2.75	1075	15	1.10	910
16	2.15	1015	16	1.25	925
17	2.90	1090	17	.40	840
18	2.45	1045	18	2.95	1095
19	2.20	1020	19	2.65	1065
20	2.20	1020	20	2.60	1060
21	2.35	1035			
22	2.45	1045			
23	2.90	1090			
24	3.30	1130			
25	3.85	1185			
26	3.25	1125			
27	3.05	1105			
28	3.90	1190			
29	3.45	1145			
30	2.70	1070			
32	2.85	1085			
32	2.40	1040			

LINE 1200E

ADJUSTMENT (10 - 1.0)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	1.00	1000	0	1.0	1000
1N	.20	920	1S	.20	920
2	-.40	860	2	-1.05	795
3	.20	920	3	0	1000
4	.60	960	4	.65	965
5	1.05	1005	5	.70	900
6	.80	980	6	0	900
7	.80	980	7	0	900
8	.80	980	8	-1.90	710
9	.55	955	9	-.20	880
10	1.10	1010	10	-1.10	790
11	-.25	875	11	-1.00	800
12	1.00	1000	12	-1.15	785
13	.90	990	13	-2.40	660
14	-1.75	725	14	-2.25	675
15	2.00	1100	15	-2.85	615
16	1.55	1055	16	-2.60	640
17	1.90	1090	17	-1.95	705
18	1.65	1065	18	-6.50	250
19	1.00	1000	19	7.10	1610
20	2.45	1145	20	13.95	2295
21	2.50	1150			
22	2.50	1150			
23	1.70	1070			
24	1.85	1085			
25	2.85	1185			
26	2.80	1180			
27	1.70	1070			
28	2.10	1110			
29	2.45	1145			
30	1.50	1050			
31	2.00	1100			
32	1.25	1025			
33	1.80	1080			
34	2.05	1105			



LINE 1600E

ADJUSTMENT (10 - 1.2)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>
0	.80	960	0	.80	960
1N	-.05	875	1S	.45	925
2	.15	895	2	.20	900
3	-.20	860	3	.70	810
4	2.85	1165	4	.60	820
5	.70	950	5	.40	920
6	.70	950	6	.05	885
7	.70	950	7	-.10	870
8	.70	950	8	-.95	785
9	.75	955	9	-1.40	740
10	.30	910	10	-1.10	770
11	.65	945	11	-.70	810
12	1.05	985	12	-.40	840
13	.25	905	13	-.25	855
14	1.10	990	14	1.10	990
15	2.60	1140	15	1.25	1005
16	2.60	1140	16	1.70	1050
17	1.00	980	17	2.15	1095
18	1.35	1015	18	1.80	1060
19	2.30	1110	19	8.60	1740
20	3.15	1195	20	10.40	1920
21	3.70	1250			
22	4.25	1305			
23	2.95	1175			
24	2.85	1165			
25	2.60	1140			
26	1.90	1070			
27	3.75	1255			
28	3.30	1210			
29	5.15	1395			
30		1245			
31		1120			
32		1050			

LINE 2000E

ADJUSTMENT (10 - .5)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	-2.50	700	0	-2.50	700
1N	.85	1035	1S	-.70	880
2	1.45	1095	2	-.65	885
3	1.90	1140	3	-.75	875
4	2.00	1150	4	-.40	910
5	-1.00	850	5	-1.00	850
6	.35	985	6	-1.10	840
7	.10	960	7	-1.00	850
8	.20	970	8	.10	960
9	.60	1010	9	-.20	930
10	0	950	10	-.15	935
11	2.10	1160	11	-.55	895
12	1.00	1050	12	-1.20	830
13	.55	1005	13	.95	1045
14	1.20	1070	14	.90	1045
15	1.85	1135	15	.75	1025
16	2.30	1180	16	1.90	1140
17	1.80	1130	17	6.20	1570
18	1.25	1075	18	.80	1030
19	1.80	1130	19	28.80	3830
20	2.20	1170	20	10.20	1970
21	3.65	1315			
22	2.95	1245			
23	2.05	1155			
24	2.40	1190			
25	1.80	1130			
26	2.20	1170			
27	2.50	1200			
28	1.55	1105			
29	3.85	1335			
30	4.10	1360			
31	1.30	1080			
32	1.20	1070			
33	2.15	1165			

LINE 2400E

ADJUSTMENT (10 - 1.80)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING</u> <u>GAMMA</u>
0	-1.20	700	0	-1.20	700
1N	2.55	1075	1S	-.20	800
2	3.75	1195	2	.40	860
3	3.40	1160	3	.35	855
4	2.30	1050	4	.30	850
5	1.75	995	5	1.00	920
6	1.50	970	6	.90	910
7	1.50	970	7	1.30	950
8	1.60	980	8	1.00	920
9	2.15	1035	9	.40	860
10	2.05	1025	10	-.20	800
11	2.00	1020	11	1.20	940
12	2.30	1050	12	2.20	1040
13	2.40	1060	13	2.55	1075
14	2.45	1065	14	2.10	1030
15	3.00	1120	15	2.20	1040
16	3.60	1180	16	4.30	1250
17	3.20	1140	17	2.10	1030
18	3.50	1170	18	1.80	1000
19	3.90	1210	19	15.95	2415
20	3.60	1180	20	11.50	1970
21	3.60	1180			
22	3.25	1145			
23	2.85	1105			
24	3.75	1195			
25	3.50	1170			
26	3.60	1180			
27	3.75	1195			
28	4.30	1250			
29	4.30	1250			
30	4.15	1235			
31	3.35	1155			
32	3.40	1160			
33	2.90	1110			

LINE 2800E

ADJUSTMENT (10 - .3)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	-1.90	780	0	-1.90	780
1N	-.240	730	1S	-2.10	760
2	-2.20	750	2	-3.10	660
3	-.95	885	3	-2.70	700
4	-.20	950	4	-.20	950
5	0	970	5	4.10	1380
6	-1.05	865	6	2.10	1180
7	-.90	880	7	1.45	1115
8	1.10	1080	8	1.0	1070
9	1.15	1085	9	4.00	1370
10	.75	1045	10	7.90	1760
11	1.05	1075	11	8.95	1865
12	.10	980	12	1.20	1090
13	2.90	1260	13	3.30	1300
14	1.55	1125	14	4.90	1460
15	1.20	1090	15	28.70	3840
16	-1.10	860	16	3.10	1280
17	-.95	875	17	0	970
18	-.80	890	18	-.10	960
19	-1.75	795	19	14.10	2380
20	-1.35	835	20	14.60	2430
21	-1.40	830			
22	1.05	1075			
23	-1.10	860			
24	-.80	890			
25	11.25	845			
26	-.90	880			
27	-.10	960			
28	.40	1010			
29	1.10	1080			
30	1.95	1165			
31	1.95	1165			
32	2.90	1260			
33	2.95	1265			
34	3.90	1360			
35	2.80	1250			
36	2.00	1170			
37	1.20	1090			
38	-1.25	845			
39	-.90	880			
40	.85	1055			
41	2.10	1180			
42	4.50	1420			

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LINE 3200E

ADJUSTMENT (10 - 1.55)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING GAMMA</u>
0	-.90	935	0	.90	935
1N	0	845	1S	1.05	950
2	-.15	830	2	1.50	995
3	-.65	780	3	.95	940
4	1.00	945	4	1.30	975
5	.35	880	5	2.50	1095
6	.45	890	6	1.55	1000
7	-.20	825	7	2.45	1090
8	-.45	800	8	3.05	1150
9	.15	860	9	4.50	1295
10	0	845	10	4.35	1280
11	4.20	1265	11	9.50	1795
12	3.75	1220	12	2.90	1135
13	12.95	2140	13	2.75	1120
14	.05	850	14	7.95	1640
15	-1.40	705	15	22.65	3110
16	7.40	1585	16	10.45	1890
17	4.15	1260	17	6.75	1520
18	.60	905	18	4.30	1270
19	0	845	19	4.80	1320
20	2.45	1090	20	2.45	1090
21	.10	855			
22	.65	910			
23	0	845			
24	.10	855			
25	.80	925			
26	.95	940			
27	.65	910			
28	.10	855			
29	.60	905			
30	.85	930			
31	1.20	965			
32	-1.20	725			
33	2.45	1090			
34	.90	935			
35	2.05	1050			
36	10.65	1910			
37	15.70	2415			
38	7.95	1650			
39	2.85	1120			
40	1.10	955			
41	2.05	1050			
42	2.05	1050			
43	2.05	1050			
44	.15	860			

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LINE 3600E

ADJUSTMENT (10 - 1.55)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	.05	850	0	.05	850
1N	-.25	820	1S	1.20	965
2	+.35	880	2	.65	910
3	-.25	820	3	.60	905
4	-.30	815	4	.95	940
5	-.15	830	5	1.95	1040
6	-.05	840	6	1.20	965
7	.40	885	7	2.00	1045
8	-1.10	735	8	3.10	1155
9	-.55	790	9	3.50	1195
10	-1.20	725	10	5.25	1370
11	-.40	805	11	14.20	2265
12	-.55	790	12	11.20	1965
13	-1.00	745	13	13.05	1150
14	-.75	770	14	21.10	2955
15	-.60	785	15	19.10	2755
16	-1.05	740	16	14.60	2305
17	-.55	790	17	6.10	1465
18	1.10	955	18	39.50	4795
19	1.45	990	19	23.00	3145
20	1.25	970	20	1.20	965
21	.10	855			
22	.25	870			
23	.70	915			
24	2.15	1060			
25	-.30	815			
26	-.05	840			
27	-.05	840			
28	.20	865			
29	.40	885			
30	.40	885			
31	.35	880			
32	.25	870			
33	.55	900			
34	1.25	970			
35	.70	915			
36	.85	930			
37	2.50	1095			
38	2.65	1110			
39	3.05	1150			
40	2.65	1110			
41	1.00	945			
42	1.30	975			
43	.75	920			

LINE 4000E

ADJUSTMENT (10 - 1.0)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	1.20	1020	0	1.20	1020
1N	.20	920	1S	.55	955
2	1.90	1090	2	0	900
3	2.10	1110	3	.20	920
4	2.15	1125	4	.65	965
5	-1.00	800	5	.75	975
6	-1.40	760	6	1.85	1085
7	-1.20	780	7	1.70	1070
8	-1.10	790	8	1.80	1080
9	-.15	850	9	2.95	1195
10	0	900	10	3.10	1210
11	-.75	825	11	3.65	1265
12	-1.25	725	12	6.10	1510
13	-1.80	720	13	3.25	1225
14	-1.80	720	14	7.80	1680
15	-1.65	735	15	8.65	1765
16	-1.70	730	16	8.80	1780
17	1.95	1095	17	6.65	1565
18	.25	925	18	6.70	1570
19	.15	915	19	10.45	1945
20	.10	910	20	11.10	2010
21	-.15	885			
22	-.60	840			
23	-.85	815			
24	-.95	805			
25	-.85	815			
26	-.95	805			
27	.20	920			
28	2.10	1110			
29	-.45	855			
30	-.60	840			
31	-.10	890			
32	-.70	830			
33	-.30	870			
34	-.30	870			
35	-.80	820			
36	.65	965			
37	.15	915			
38	.85	985			
39	1.70	1070			
40	1.05	1005			
41	2.65	1165			
42	1.00	1000			
43	.40	940			
44	.35	935			
45	-.65	835			
46	-.55	845			

LINE 4400E

ADJUSTMENT (10 - 1.5)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	1.50	1000	0	1.5	1000
1N	.80	930	1S	1.8	1030
2	2.00	1050	2	1.05	955
3	2.90	1140	3	1.00	950
4	.90	940	4	2.15	1065
5	-1.20	730	5	.70	920
6	-.50	800	6	1.15	965
7	.10	860	7	1.20	970
8	-.30	820	8	3.00	1150
9	-.40	810	9	2.85	1135
10	-.65	785	10	3.05	1155
11	-.85	765	11	3.90	1240
12	-1.00	750	12	5.90	1440
13	.25	875	13	4.25	1275
14	-.10	840	14	5.20	1370
15	3.60	1210	15	4.15	1265
16	3.50	1200	16	6.10	1450
17	2.25	1075	17	----	----
18	1.10	960	18	6.90	1540
19	1.70	1020	19	6.60	1510
20	.70	920	20	6.50	1500
21	-.15	835	21	6.20	1470
22	.90	760	22	4.00	1250
23	.10	840			
24	0	850			
25	.15	865			
26	-.45	805			
27	.40	890			
28	.20	870			
29	.05	855			
30	.95	945			
31	.50	900			
32	.25	875			
33	0	850			
34	0	850			
35	-.90	760			
36	.15	865			
37	-.10	840			
38	.80	930			
39	.20	870			
40	.95	945			
41	.50	900			
42	.25	875			
43	3.10	1160			
44	1.95	1045			
45	.90	940			
46	0	850			
47	-1.10	740			
48	.9	940			



LINE 4800E

ADJUSTMENT (10 - 1.40)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	.90	950	50N	.80	940
1N	-.20	840	51	.15	875
2	-.20	840	52	1.35	995
3	-.35	825	53	.95	955
4	-.90	770	54	.75	935
5	-.75	785	55	2.30	1090
6	-.65	795	56	1.20	980
7	-.80	780			
8	1.90	1050			
9	4.45	1305			
10	3.35	1195			
11	3.50	1210	0	.90	950
12	1.50	1010	1S	.60	920
13	.80	940	2	1.30	990
14	-.55	805	3	1.35	995
15	-1.50	710	4	1.50	1010
16	-1.40	720	5	.90	950
17	-.95	765	6	2.90	1150
18	.90	950	7	3.35	1195
19	.85	775	8	3.25	1185
20	.05	865	9	2.40	1100
21	.50	910	10	3.45	1205
22	.30	890	11	4.45	1305
23	.35	825	12	4.75	1335
24	.90	950	13	4.70	1330
25	.90	950	14	4.55	1315
26	1.60	1020	15	4.60	1320
27	1.15	975	16	5.20	1380
28	.95	955			
29	2.40	1100			
30	.80	940			
31	1.10	970			
32	.20	880			
33	.60	920			
34	1.15	975			
35	-.15	845			
36	.50	910			
37	1.30	990			
38	.30	890			
39	2.40	1100			
40	-.10	850			
41	.10	870			
42	1.50	1010			
43	1.10	970			
44	1.05	965			
45	.65	925			
46	1.00	960			
47	1.10	970			
48	2.30	1090			
49	1.65	1025			

LINE 52E

ADJUSTMENT (10 - 1.90)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	-.90	720	5000	1.95	1005
100N	-.90	720	5100	4.10	1220
200	2.10	1020	5200	1.90	1000
300	3.00	1110	5300	1.55	965
400	4.10	1220	5400	1.45	955
500	3.45	1155	5500	1.20	930
600	2.10	1020	5600	2.00	1010
700	.85	895	5700	2.00	1010
800	1.10	920	5800	3.20	1130
900	-.10	800			
1000	-.10	800			
1100	1.00	910			
1200	.90	900			
1300	-.25	785			
1400	-.90	720			
1500	-2.00	610	0	-.90	720
1600	-.30	780	1S	-.10	800
1700	2.10	1020	2	1.10	920
1800	1.40	950	3	3.15	1125
1900	0	810	4	3.05	1115
2000	1.85	995	5	4.50	1260
2100	.80	890	6	4.00	1210
2200	1.10	920	7	3.40	1150
2300	1.10	920	8	3.60	1160
2400	1.80	990	9	4.05	1215
2500	1.25	925	10	4.55	1265
2600	2.15	1025	11	4.90	1300
2700	1.2	930	12	4.80	1290
2800	3.00	1110			
2900	?	----			
3000	2.25	1035			
3100	4.05	1215			
3200	2.90	1100			
3300	1.25	935			
3400	1.35	945			
3500	1.95	1005			
3600	1.95	1005			
3700	2.95	1105			
3800	1.20	930			
3900	1.75	985			
4000	1.20	930			
4100	3.05	1115			
4200	1.40	950			
4300	3.10	1120			
4400	1.90	1000			
4500	.70	880			
4600	2.20	1030			
4700	3.10	1120			
4800	2.70	1080			
4900	2.10	1020			

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LINE 5600E

ADJUSTMENT (10 - 1.95)

<u>STATION</u>	<u>READING</u>	<u>ADJ. READING GAMMA</u>	<u>STATION</u>	<u>READING</u>	<u>ADJ. READING GAMMA</u>
0	1.70	975	5000	1.85	990
100N	1.10	915	5100	2.00	1005
200	2.05	1010	5200	.95	900
300	3.80	1185	5300	2.00	1005
400	2.00	1005	5400	1.20	925
500	1.90	995	5500N	2.85	1090
600	2.00	1005	5600	2.85	1090
700	1.50	955	5700	1.10	915
800	1.00	905	5800	1.10	915
900	1.10	915			
1000	1.20	925			
1100	2.00	1005			
1200	1.10	915			
1300	-.10	795	5200E	-.90	
1400	.20	825	5400E	-.60	
1500	-.35	770	5600E	1.70	
1600	1.90	995	5800E	2.10	
1700	1.50	955			
1800	1.70	975			
1900	1.80	985			
2000	2.40	1045			
2100	1.90	1095			
2200	-.85	720	0	1.70	975
2300	4.10	1215	1S	-.65	740
2400	3.00	1105	2	1.10	910
2500	2.10	1015	3	3.00	1105
2600	3.25	1130	4	3.90	1195
2700	3.25	1130	5	3.00	1105
2800	4.90	1295	6	3.80	1185
2900	3.10	1115	7	3.05	1110
3000	0	805	8	1.10	915
3100	1.05	910	9	2.70	1075
3200	.90	895	10	4.35	1240
3300	1.35	940	11	4.10	1215
3400	1.10	915	12	4.05	1210
3500	1.00	905			
3600	2.10	1015			
3700	1.00	905			
3800	.65	870			
3900	1.05	910			
4000	1.05	910			
4100	1.25	930			
4200	1.10	915			
4300	.95	900			
4400	.95	900			
4500	1.55	960			
4600	1.20	925			
4700	.90	895			
4800	2.10	1015			
4900	2.20	1025			

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LINE 6000E

ADJUSTMENT (10 - 1.30)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	.2	890	5000	1.10	980
100	1.10	980	5100	1.20	990
200	.20	890	5200	1.75	1045
300	0.95	965	5300	1.20	990
400	.25	895	5400	1.95	1065
500	-.15	855	5500	2.20	1090
600	2.90	1160	5600	2.20	1090
700	-.45	825			
800	-.75	795			
900	1.30	1000			
1000	0	870			
1100	.45	915	0	.2	890
1200	-.95	775	15	2.00	1070
1300	.15	885	2	1.10	980
1400	-.40	830	3	2.90	1160
1500	.20	890	4	1.90	1060
1600	.10	880	5	1.35	1005
1700	2.50	1120	6	-.1	860
1800	1.80	1050	7	1.80	1050
1900	1.20	990	8	2.25	1095
2000	2.20	1090	9	1.95	1065
2100	-.45	825	10	1.95	1065
2200	1.95	1065	11	3.00	1170
2300	1.10	980	12	3.10	1180
2400	1.40	1010	13	4.00	1270
2500	.95	965	14	4.00	1270
2600	.80	950	15	3.20	1190
2700	-.10	860	16	4.20	1290
2800	-.20	850			
2900	-.15	855			
3000	1.00	970			
3100	.35	905			
3200	.90	960			
3300	.75	945			
3400	2.05	1075			
3500	.10	880			
3600	.80	950			
3700	0	870			
3800	2.00	1070			
3900	-.75	795			
4000	1.15	985			
4100	1.60	1030			
4200	.60	930			
4300	1.50	1020			
4400	.85	955			
4500	1.80	1050			
4600	1.30	1000			
4700	1.10	980			
4800	1.10	1060			
4900	.95	965			

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LINE 6400E

ADJUSTMENT (10 - 1.60)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	1.70	1010	5000	2.20	1060
100N	2.10	1050	5100	6.90	1530
200	2.50	1090	5200	-.50	790
300	2.95	1135	5300	.90	930
400	2.95	1135	5400	.90	930
500	1.90	1030	5500	.45	885
600	.85	925	5600	1.00	940
700	.60	900			
800	1.20	960	L 76		
900	1.20	960	5400N	1.40	
1000	3.30	1170			
1100	3.90	1230			
1200	.10	850			
1300	1.00	940			
1400	.20	860			
1500	2.05	1045			
1600	1.15	955			
1700	1.10	950			
1800	1.05	945			
1900	1.15	955			
2000	1.20	960			
2100	1.75	1015			
2200	2.50	1090			
2300	5.30	1370			
2400	-.55	785			
2500	.10	850			
2600	.90	930			
2700	.25	865			
2800	.75	915			
2900	.70	910			
3000	.50	890			
3100	1.40	980			
3200	1.00	940			
3300	1.55	995			
3400	2.20	1060			
3500	0	840			
3600	2.15	1055			
3700	.10	850			
3800	2.00	1040			
3900	1.50	990			
4000	0	840			
4100	.80	920			
4200	2.20	1060			
4300	.55	895			
4400	-.15	825			
4500	.25	865			
4600	-.30	810			
4700	.45	885			
4800	5.65	1405			
4900	8.30	1670			

LINE 6800E

ADJUSTMENT (10 - .70)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	.70	1000	5000	.65	995
100N	2.00	1130	5100	.70	1000
200	.70	940	5200	-.30	900
300	2.40	1170	5300	1.00	1030
400	2.90	1220	5400	1.00	1030
500	2.70	1200	5500	-.10	920
600	1.05	1035	5600	-.65	865
700	1.95	1125	5700	0	930
800	2.00	1130	5800	-1.30	800
900	2.40	1170			
1000	2.90	1220	L 76		
1100	.95	1025	5400N	1.20	
1200	.55	985			
1300	1.80	1110			
1400	1.05	1035			
1500	1.50	1080			
1600	-.55	875			
1700	1.30	1060			
1800	.95	1025			
1900	.80	1010			
2000	-.85	845			
2100	.95	1025			
2200	.95	1025			
2300	.80	1010			
2400	.90	1020			
2500	.60	990			
2600	1.00	1030			
2700	1.00	1030			
2800	-.50	880			
2900	0	930			
3000	2.10	1140			
3100	0	930			
3200	-.90	840			
3300	.90	1020			
3400	.90	1020			
3500	1.80	1110			
3600	.10	940			
3700	.10	940			
3800	.10	940			
3900	.85	1015			
4000	1.90	1120			
4100	2.10	1140			
4200	3.00	1230			
4300	.90	1020			
4400	1.00	1030			
4500	.70	1000			
4600	.05	935			
4700	.35	965			
4800	.15	945			
4900	-2.10	720			

LINE 7200E

ADJUSTMENT (10 - 1.95)

STATION	READING	ADJ. READING GAMMA	STATION	READING	ADJ. READING GAMMA
0	2.20	1025	5000	.65	870
100N	2.20	1025	5100	3.45	1150
200	2.35	1040	5200	2.50	1055
300	2.20	1025	5300	2.00	1005
400	1.70	975	5400	2.70	1075
500	.95	900	5500	1.95	1000
600	1.25	930	5600	-.15	790
700	1.10	915	5700	2.10	1015
800	.90	895	5800	1.05	910
900	1.10	915	5900	1.70	975
1000	.40	845	6000	0	805
1100	.90	895	6100	1.90	995
1200	.30	835	6200	5.45	1350
1300	-.30	775			
1400	.40	845			
1500	1.15	920	7000E	1.95	
1600	0	805			
1700	-.70	735			
1800	-.95	710			
1900	.20	825			
2000	.35	840			
2100	.90	895			
2200	-.35	770			
2300	1.00	905			
2400	.75	880			
2500	1.20	925			
2600	1.20	925			
2700	1.30	935			
2800	2.90	1095			
2900	.20	825			
3000	.45	850			
3100	1.00	905			
3200	.75	880			
3300	3.20	1125			
3400	1.80	985			
3500	.90	895			
3600	.65	870			
3700	.80	885			
3800	2.90	1095			
3900	1.35	940			
4000	1.85	990			
4100	2.10	1015			
4200	2.40	1045			
4300	2.80	1085			
4400	1.10	915			
4500	.80	885			
4600	2.20	1025			
4700	.50	855			
4800	1.95	1000			
4900	2.45	1050			

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## GEOCHEMICAL ANALYSIS

REPORT No 74 - 127DATE May 12, 1972

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
10 + 2N	25				
+ 4N	20				
+ 6N	19				
+ 8N	54				
+ 10N	39				
+ 12N	22				
+ 14N	16				
+ 16N	18				
+ 18N	15				
+ 20N	19				
+ 22N	22				
+ 24N	17				
10 + 08	17				
+ 28	51 ✓				
+ 4S	36 ✓				
+ 6S	31				
+ 8S	70 ✓				
+ 10S	39				
+ 12S	37				
+ 14S	34				
+ 16S	37				
+ 18S	25 ✓				
+ 20S	37 ✓				
14 + 0N	24				
+ 2N	43 ✓				
+ 4N	21 ✓				
+ 6N	24 ✓				
+ 8N	17				
+ 10N	20				
+ 12N	18				

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**GEOCHEMICAL ANALYSIS**

REPORT No 72 - 127

DATE May 12, 1972.

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L4 + 14N	18				
+ 16N	23				
+ 18N	19				
+ 20N	36				
+ 22N	19				
+ 24N	22				
+ 26N	18				
+ 28N	18				
L4 - 0	53				
L4 - 2S	33				
- 4S	40				
- 6S	34				
- 8S	27				
- 10S	50				
- 12S	32				
- 14S	36				
- 16S	33				
- 18S	25				
- 20S	37				
L4 + 0S	32				
+ 2S	33				
+ 4S	27				
+ 6S	24				
+ 8S	29				
+ 10S	26				
+ 12S	53				
+ 14S	31				
+ 16S	27				
+ 18S	14				
L8 + 0S	20				

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## GEOCHEMICAL ANALYSIS

REPORT No 72 - 127DATE May 12, 1972

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L8 + 4N	19				
+ 6N	19				
+ 8N	15				
+ 10N	18				
+ 12N	24				
+ 14N	18				
+ 16N	17				
+ 18N	17				
+ 20N	14				
+ 22N	14				
+ 24N	18				
+ 26N	18				
+ 28N	23				
+ 30N	25				
+ 32N	15				
L8 - 0	42				
- 2S	30				
- 4S	50				
- 6S	46				
- 8S	25				
- 10S	53				
- 12S	41				
- 14S	65				
- 16S	37				
- 18S	34				
- 20S	46				
L12 + 6N	19				
+ 8N	21				
+ 10N	18				
+ 12N	17				

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## GEOCHEMICAL ANALYSIS

REPORT No 72 - 127DATE May 12, 1972.

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L12 + 14N	20				
+ 16 N	19				
+ 18N	17				
+ 20N	14				
+ 24N	18				
+ 26N	15				
+ 28N	13				
+ 30N	12				
+ 32N	19				
+ 34N	47				
L12 + 08	14				
+ 25	20				
+ 45	20				
L12 - 0	18				
- 25	35				
- 45	69				
- 65	48				
- 85	46				
- 125	29				
- 145	48				
- 165	44				
- 185	32				
- 205	45				
L16 - 0	19				
- 2N	35				
- 2N	17				
- 4N	33				
- 4N	19				
- 6N	19				
- 6N	21				

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GEOCHEMICAL ANALYSIS

REPORT No 72 - 127

DATE May 12, 1972.

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L16 - 8N	26				
- 8N	21				
- 10N	20				
- 10N	7				
- 12N	18				
- 12N	12				
- 14N	21				
- 14N	33				
- 16N	39				
- 16N	17				
- 18N	53				
- 18N	19				
- 20N	32				
- 20N	14				
- 22N	18				
- 24N	18				
- 26N	19				
- 28N	21				
- 30N	19				
- 32N	22				
- 34N	8				
L20 - 2N	50				
- 4N	14				
- 6N	18				
- 8N	18				
- 10N	17				
- 12N	23	✓			
- 14N	20				
- 16N	20				
- 18N	18				

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## GEOCHEMICAL ANALYSIS

REPORT No 72 - 127DATE May 12, 1972.

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L20 - 20N	17				
- 22N	14				
- 24N	16				
- 26N	25				
- 28N	23				
- 30N	28				
- 32N	23				
- 34N	21				
L20 - 0	25				
- 2S	50				
- 4S	32				
- 6S	52				
- 8S	55				
- 12S	38				
- 14S	49				
- 16S	44				
- 18S	44				
- 20S	32				
L24 - 2N	25				
- 4N	29				
- 6N	13				
- 8N	36				
- 10N	20				
- 12N	17				
- 14N	19				
- 16N	19				
- 18N	16				
- 20N	18				
- 22N	15				
- 24N	14				

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
L24 - 26N	16				
- 28N	24	✓			
- 30N	24	✓			
- 32N	16				
L24 - 0	35	✓			
- 28	40	✓			
- 48	29	✓			
- 65	45				
- 85	44	✓			
- 105	38	✓			
- 125	31	✓			
- 145	36	✓			
- 166	35	✓			
- 186	44	✓			
- 208	41	✓			
L28 - 0	27	✓			
- 2N	37	✓			
- 4N	30	✓			
- 6N	51	✓			
- 8N	51	✓			
- 10N	19	✓			
- 12N	30	✓			
- 14N	52	✓			
- 16N	58	✓			
- 18N	68	✓			
- 20N silt	51	✓			
- 22N	55	✓			
- 24N	23	✓			
- 26N	25	✓			
- 28N	19	✓			

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni	ppm Cu	ppm Ag	ppm Pb	ppm Zn
128 - 30N	24 ✓				
- 32N	24 ✓				
- 34N	19 ✓				
- 36N	22 ✓				
- 38N	31 ✓				
- 40N	18 ✓				
- 42N	22 ✓				
128 - 45	35 ✓				
- 46	27 ✓				
- 68	24 ✓				
- 85	32 ✓				
- 108	32 ✓				
- 128	37 ✓				
- 148	33 ✓				
- 168	37 ✓				
- 188	38 ✓				
- 208	48 ✓				
132 - 2N	150 ✓	46	1.4	22	130
- 4N	44 ✓	27	0.7	14	59
- 6N	116 ✓	19	1.4	20	81
- 8N	127 ✓	14	0.6	13	46
- 10N	231 ✓	20	0.9	18	56
- 12N	425 ✓	16	0.8	15	51
- 14N	100 ✓	26	0.7	14	54
- 16N silt	45 ✓	22	1.4	32	48
- 18N	45 ✓	47	0.9	18	63
- 20N	22 ✓	23	0.9	17	63
- 22N	22 ✓	31	0.7	13	227
- 24N	19 ✓	21	0.8	14	64
- 26N	28 ✓	26	0.9	17	66

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni	ppm Cu	ppm Ag	ppm Pb	ppm Zn
I32 - 28N	17	18	0.7	15	59
- 30N	22	26	0.8	17	76
- 32N	18	20	0.6	12	53
- 34N	19	20	0.7	12	46
- 36N	21	18	0.7	12	56
- 38N	18	18	0.6	11	45
- 40N	19	21	0.8	15	54
- 42N	20	19	0.8	17	50
- 44N	22	20	0.8	17	47
I32 - 0	128	32	1.0	16	109
- 28	52	22	1.0	15	119
- 48	160	60	1.1	19	281
- 68	143	61	1.2	22	160
- 88	69	47	1.2	26	142
- 108	34	32	1.5	23	54
- 128	37	27	1.1	20	79
- 148	30	26	0.8	18	56
- 168	36	30	1.0	17	76
- 188	37	32	0.9	15	70
- 208	27	37	0.7	14	79
I36 - 0	107				
- 2N	119				
- 4N	104				
- 6N	109				
- 8N	113				
- 10N	114				
- 12N	115				
- 14N	127				
- 16N	140				
- 18N	122				

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GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
136 - 20N	21 ✓				
- 22N	17 ✓				
- 24N	18 ✓				
- 26N	14 ✓				
- 28N	16 ✓				
- 30N	22 ✓				
- 32N	20 ✓				
- 34N	16 ✓				
- 36N	20 ✓				
- 38N	21 ✓				
- 40N	25 ✓				
- 42N	19 ✓				
- 44N	23 ✓				
- 46N	16 ✓				
136 - 25	79 ✓				
- 48	61 ✓				
- 68	95 ✓				
- 88	21 ✓				
- 108	71 ✓				
- 128	47 ✓				
- 148	52 ✓				
- 168	57 ✓				
- 188	34 ✓				
- 208 <i>all</i>	32 ✓				
140 - 25	114 ✓				
- 45	77 ✓				
- 65	105 ✓				
- 85	13 ✓				
- 105	73 ✓				
- 125	41 ✓				

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Al				
140 - 14S	75 ✓				
- 16S	33 ✓				
140 - 0	85 ✓				
- 2N	94 ✓				
- 4N	71 ✓				
- 5N <sup>0114</sup>	50 ✓				
- 6N	71 ✓				
- 8N	91 ✓				
- 10N	93 ✓				
- 12N	100 ✓				
- 14N	73 ✓				
- 16N	187 ✓				
- 18N	101 ✓				
- 20N	23 ✓				
- 22N	22 ✓				
- 24N	28 ✓				
- 26N	25 ✓				
- 28N	22 ✓				
- 30N	22 ✓				
- 32N	21 ✓				
- 34N	20 ✓				
- 36N	22 ✓				
- 38N	20 ✓				
- 40N	20 ✓				
- 42N	20 ✓				
- 44N	20 ✓				
- 46N	23 ✓				
- 48N	20 ✓				
144 - 0	37 ✓				
- 2N	40 ✓				

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GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm KI				
144 - 4N	39 ✓				
- 6N	48 ✓				
- 8N	49 ✓				
- 10N	44 ✓				
- 12N	29 ✓				
- 14N	29 ✓				
- 16N	32 ✓				
- 18N	22 ✓				
- 20N	19 ✓				
- 22N	14 ✓				
- 24N	18 ✓				
- 26N	18 ✓				
- 28N	20 ✓				
- 30N	24 ✓				
- 32N	26 ✓				
- 34N	17 ✓				
- 36N	15 ✓				
- 38N	13 ✓				
- 40N	15 ✓				
- 42N	18 ✓				
- 44N	25 ✓				
- 46N	21 ✓				
- 48N	24 ✓				
144 - 25	95 ✓				
- 43	50 ✓				
- 63	99 ✓				
- 83	35 ✓				
- 103	68 ✓				
- 123	39 ✓				
- 143	23 ✓				

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**GEOCHEMICAL ANALYSIS**

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SAMPLES FROM \_\_\_\_\_

SAMPLE	PPM Ni				
144 - 168	43				
148 - 0	51				
- 2N	55				
- 4N	47				
- 6N	47				
- 8N	49				
- 10N	43				
- 12N	32				
- 14N	34				
- 16N	33				
- 18N	111				
- 20N	56				
- 22N	50				
- 24N	72				
- 26N	87				
- 28N	22				
- 30N	32				
- 32N	15				
- 34N	18				
- 36N	16				
- 38N	17				
- 40N	20				
- 42N	14				
- 44N	20				
- 46N	18				
- 48N	12				
- 50N	15				
- 52N	18				
- 54N	13				
- 56N	17				

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	PPM NI				
148 - 2S	47				
- 4S	40				
- 6S	47				
- 8S	41				
- 10S	131				
- 12S	60				
152 - 0N	9				
- 2N	50				
- 4N	31				
- 6N	23				
- 8N	27				
- 10N	28				
- 12N	19				
- 14N	26				
- 16N	32				
- 18N	52				
- 20N	168				
- 22N	150				
- 24N	47				
- 26N	34				
- 28N	11				
- 30N	12				
- 32N	44				
- 34N	19				
- 36N	11				
- 38N	8				
- 40N	12				
- 42N	17				
- 44N	12				
- 46N	11				

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm KI			
L52 - 48N	16			
- 50N	11			
- 52N	16			
- 54N	18			
L52 - 25	36			
- 45	36			
- 65	58			
- 85	121			
- 105	63			
- 125	67			
L56 - 25	33			
- 45	29			
- 65	15			
- 85	37			
- 105	48			
- 125	75			
L56 - 2N	29			
- 4N	15			
- 6N	32			
- 8N	23			
- 10N	21			
- 12N	50			
- 14N	21			
- 16N	22			
- 18N	20			
- 20N	18			
- 22N	19			
- 24N	33			
- 26N	17			
- 28N	17			

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**GEOCHEMICAL ANALYSIS**

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
156 - 30N	13				
- 32N	14				
- 34N	4				
- 36N	11				
- 38N	12				
- 40N	15				
- 42N	11				
- 44N	18				
- 46N	15				
- 48N	9				
- 50N	15				
- 52N	17				
- 54N	15				
- 56N	26				
- 57N	18				
160 - 08	4				
- 28	21				
- 48	32				
- 68	47				
- 88	33				
- 108	30				
- 128	16				
160 - 0N	22				
160 - 0N	20				
- 2N	28				
- 4N	40				
- 6N	22				
- 8N	23				
- 10N	41				
- 12N	110				

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## GEOCHEMICAL ANALYSIS

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SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
160 - 14N	26				
- 16N	26				
- 18N	10				
- 20N	12				
- 22N	26				
- 24N	19				
- 26N	16				
- 28N	11				
- 30N	5				
- 32N	8				
- 34N	10				
- 36N	14				
- 38N	13				
- 40N	12				
- 42N	12				
- 44N	13				
- 46N	19				
- 48N	13				
- 50N	12				
- 52N	13				
- 54N	14				
164 - 0N	49				
- 2N	37				
- 4N	26				
- 6N	27				
- 8N	21				
- 10N	75				
- 12N	161				
- 14N	20				
- 16N	18				

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## GEOCHEMICAL ANALYSIS

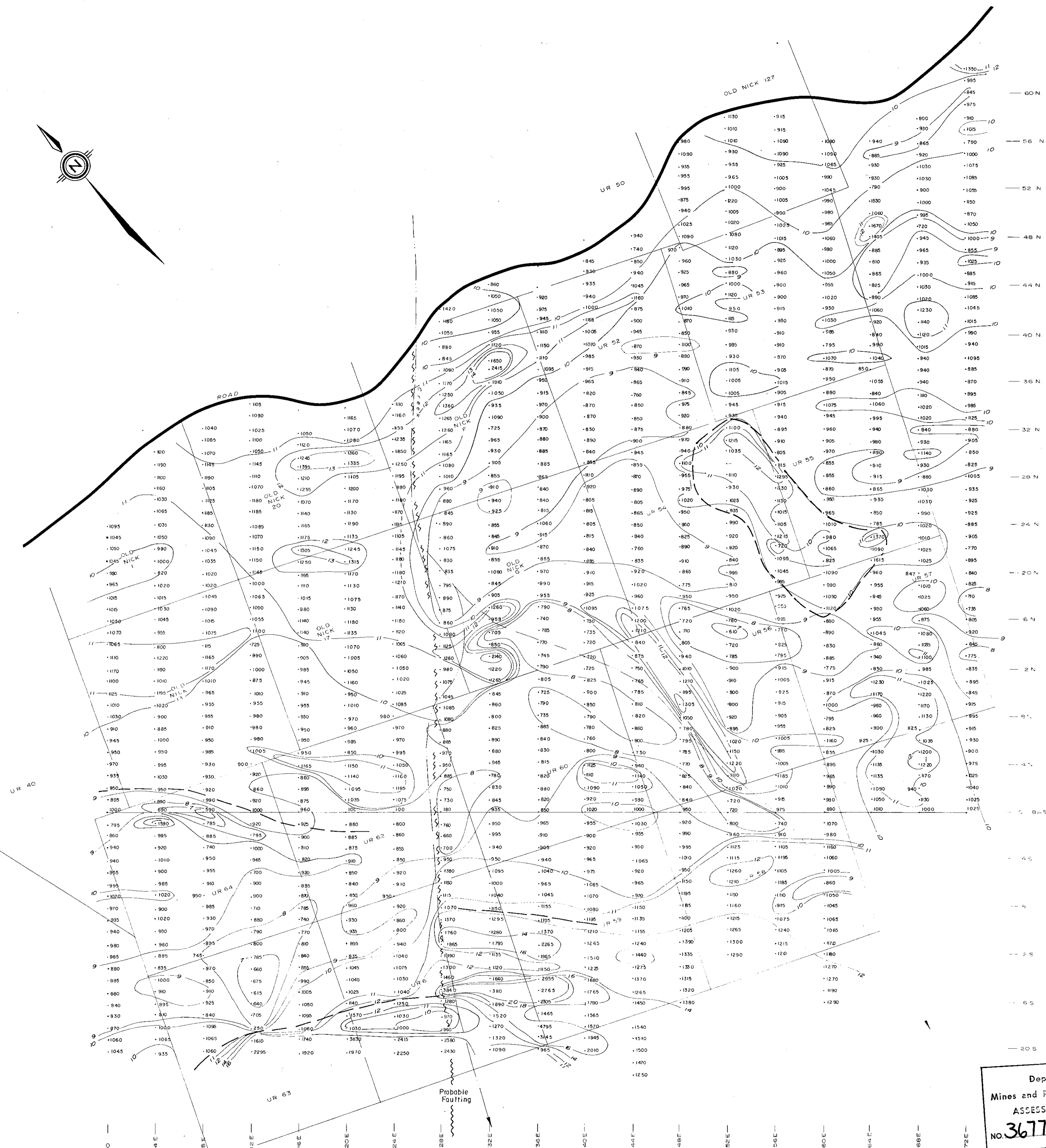
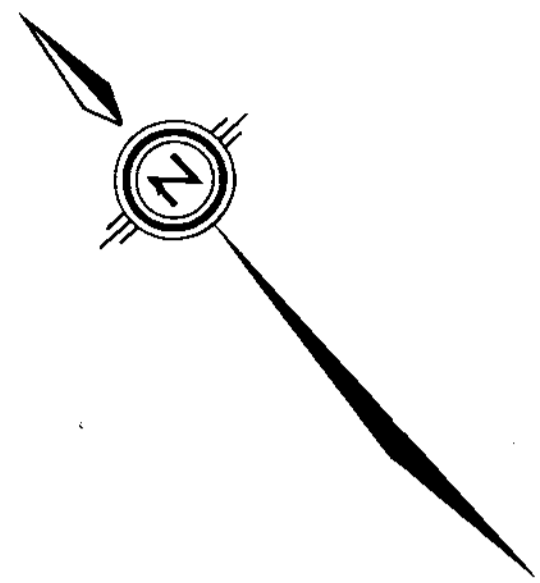
REPORT No. 72 - 127

DATE May 12, 1972.

SAMPLES FROM \_\_\_\_\_

SAMPLE	ppm Ni				
164 - 18N	21 ✓				
- 20N	34 ✓				
- 22N	37 ✓				
- 24N	19 ✓				
- 26N	20 ✓				
- 28N	12 ✓				
- 30N	6 ✓				
- 32N	13 ✓				
- 34N	13 ✓				
- 36N	12 ✓				
- 38N	13 ✓				
- 40N	12 ✓				
- 42N	12 ✓				
- 44N	12 ✓				
- 46N	13 ✓				
- 48N	14 ✓				
- 50N	19 ✓				
164 - 852N	14 ✓				
- 854N	14 ✓				
- 856N	13 ✓				

ASSAYER R. M. Samuels  
Registered Assayer, Province of B.



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3677 MAP #3

TO ACCOMPANY REPORT DATED  
21 AUG 1972  
BY E. LIVINGSTONE

*E. Livingstone*

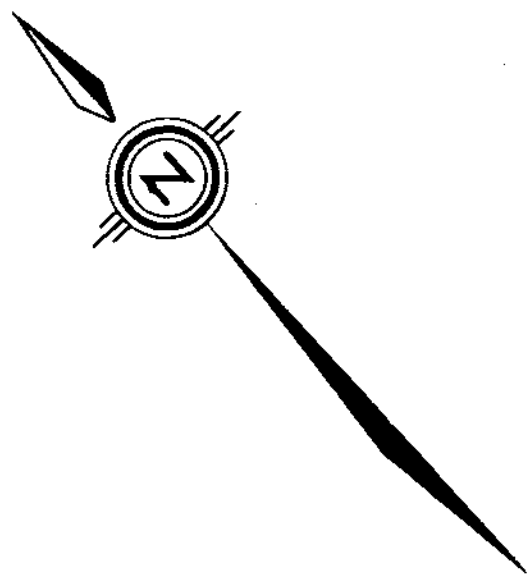
3677  
M-3

LEGEND  
• 1090 MAGNETIC READING IN GAMMAS  
--- MAGNETIC CONTOUR INTERVAL 100 GAMMAS  
- - - POSSIBLE CONTACT

NORTHERN DEEP LEVEL MINES LTD. (N.P.L.)  
OLD NICK PROPERTY

MAGNETIC SURVEY

SCALE  
Feet 400 0 400 800 1200 Feet



**LEGEND**

- 35 NICKEL VALUE IN PPM
- NICKEL SOIL VALUES CONTOURED AT +90 ppm and +130 ppm.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3677 MAP #4

To Accountant Report  
BY E. ZINGARO  
DATE MAY 29/72

NORTHERN DEEP LEVEL MINES LTD. (N.P.L.)

OLD NICK PROPERTY

**GEOCHEMICAL SURVEY**

SCALE  
Feet 400 0 400 800 1200 Feet