

MAP NO.: 105 G 12
ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092741
MINING DISTRICT: Watson Lake
TYPE OF WORK: Geochemical, Geophysical

REPORT FILED UNDER: Noranda Exploration Company Limited

DATE PERFORMED: March, 1989

DATE FILED: July 21, 1989

LOCATION: LAT.: 61o 44'N

AREA: Ross River

LONG.: 131o 00'W

VALUE \$: 19,500.00

CLAIM NAME & NO.: ELDORADO 1-78 YB11987-12044, 14223-242

WORK DONE BY: H. Copland

WORK DONE FOR: Noranda Exploration Company, Limited

DATE TO GOOD STANDING:

REMARKS: #28 PUP Prospecting, soil sampling and geophysics (mag, VLF, HLEM) were done in the search for other occurrences. Pods of arsenopyrite-pyrite-gold and pyrite-chalcopyrite occur in Paleozoic Klondike schist. Permian ultramafics and Tertiary basalts also occur in the area.

Geochemical and Geophysical

Report on the

ELDORADO 1-78 CLAIMS

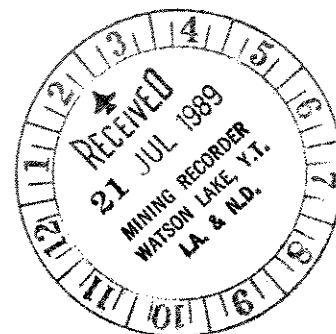
Watson Lake Mining District, Yukon
NTS: 1050/12

Lat: 61 deg.44'N
Long: 131 deg.

Noranda Exploration Company Limited
(No Personal Liability)

092741

Hugh Copland
July 1989



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 19,500.00

of *D. S.mond*
Regional Manager, Exploration and
Geological Services to the Commissioner
of Yukon Territory.

SUMMARY

The Eldorado 1-78 Claims are located just south of the Robert Campbell Highway, at the Hoolle River, 50 km. from Ross River, Yukon. The claims are underlain primarily by Paleozoic Klondike Schist intruded by Tertiary basalt and Permian ultramafics. Pods of arsenopyrite-pyrite-gold, and pyrite-chalcopyrite occur within the schists. In 1988 and 1989 a program of prospecting, soil sampling, and geophysics (mag, VLF, HLEM) was undertaken to locate further mineralization. Results required the undertaking of additional mapping and trenching which is recommended for the summer of 1989.

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5

GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE ELDORADO CLAIMS
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

1-1 INTRODUCTION

The Eldorado claims were staked in the spring of 1988 to cover an arsenopyrite-pyrite showing near the Hoole River. An initial program of VLF-EM, soil sampling and prospecting was conducted shortly afterwards. In March 1989 a grid was cut and a magnetometer and HLEM survey conducted on the property. This report will discuss the results of these programs.

1-2 LOCATION AND ACCESS (see figs. 1&2)

The Eldorado claim block consists of 78 units located 3 km. south of the Robert Campbell Highway approximately 50 km. southwest of Ross River. Access to the property is via an old cat trail which is driveable by 4WD during the summer months.

1-3 PHYSIOGRAPHY

The claims lie within the Pelly Mountains in an area of extensive glacial drift cover. Topography on the property ranges from a high of 1160 metres in the southwest, gently sloping to a low of 850 metres in the northeast. The Hoole River cuts through the eastern portion of the claims flowing northerly into the Pelly River. A steep canyon inaccessible for the most part is formed along the river. A number of small creeks flow easterly through the claims into the Hoole River.

1-4 CLAIM DESCRIPTION (see fig. 3)

The Eldorado Property consists of the following claims:

CLAIM	RECORD NO.	ANNIVERSARY DATE
Eldorado 1-58	YB11987-12044	Nov. 18, 1991
Eldorado 59-78	YB14223-14242	Nov. 18, 1991

The above anniversary date is contingent on the acceptance of this report.

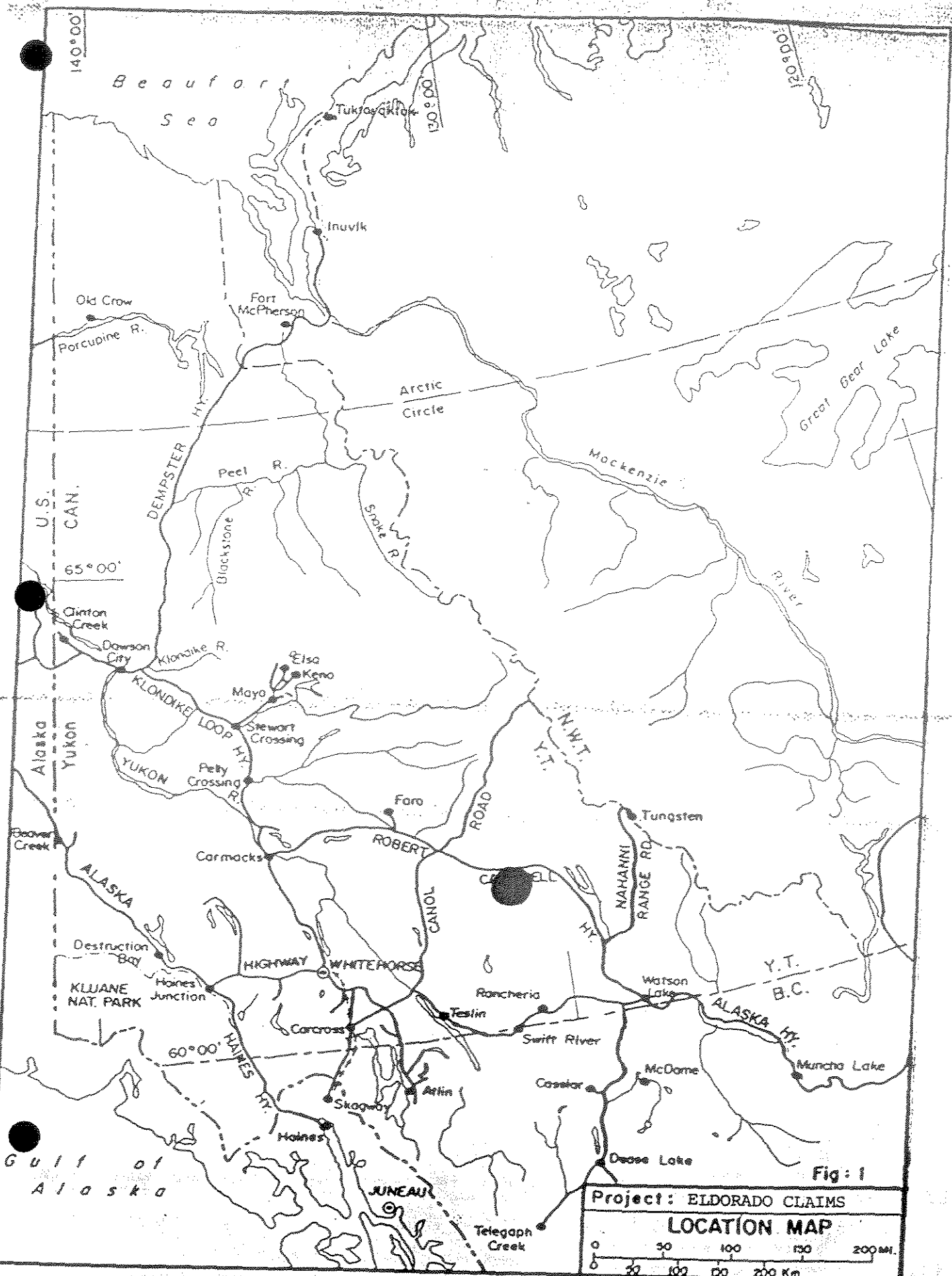
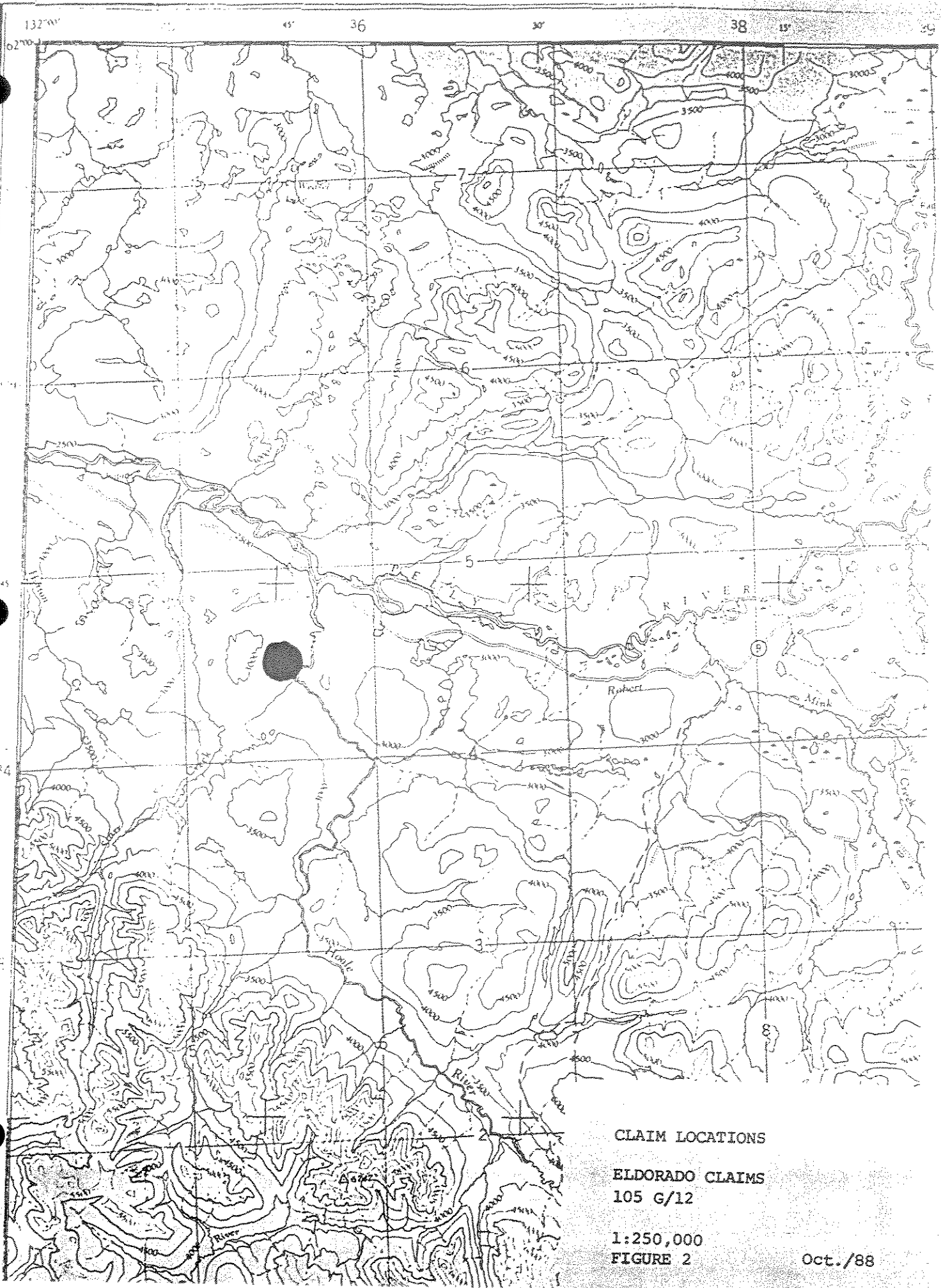


Fig: 1

Project: ELDORADO CLAIMS
LOCATION MAP
 0 50 100 150 200 MI.
 0 50 100 150 200 Km.



CLAIM LOCATIONS

ELDORADO CLAIMS
105 G/12

1:250,000
FIGURE 2

Oct./88

1-5 HISTORY

The area was staked in 1963, by Newmont Exploration as a potential asbestos target. Trenching was conducted and two diamond drill holes were put down on what were probably magnetometer targets. No significant values were reported although the lower portion of one hole intersected a pervasively carbonate altered unit. No analysis for gold was done. No work was done in the area since that time. Placer gold is reported to occur along the Hoole River immediately downstream of the claims.

The Eldorado 1-58 claims were staked by Mr. A. Carlos of Whitehorse to protect a pod of arsenopyrite-pyrite discovered in a small tributary of the Hoole River. The Eldorado 59-78 claims were added by Noranda Exploration Company Limited to protect the possible strike extension of the showing on the other side of the river. The original claims were subsequently optioned to Noranda Exploration in late 1988.

1-6 WORK PROGRAM

During the period June 30 to July 5 an initial program of reconnaissance soil sampling and prospecting was carried out on the claims. A small soil grid was installed over the main showing and prospecting concentrated from the showing downstream along the river. The following personnel were involved:

Gordon Mackay	Field Geologist	Whitehorse, YT
Bruce Bark	Field Assistant	Peterborough, ONT
Robert Copland	Field Assistant	Whitehorse, YT

A short VLF-EM survey was conducted by Mr. A. Carlos of Whitehorse in early July over the immediate area of the showing.

On September 17-18, 1988 a magnetometer survey consisting of 8.2 km was conducted over the original soil grid. The operators of this survey were:

John Weir	Geophysical Technician	Vancouver, BC
Steve Keiser	Geophysical Technician	Vancouver, BC

Following an evaluation of the data over the winter it was decided to re-orientate and expand the geophysical grid over the central portion of the claims. During the period March 5-20/89 a 17 km. grid was cut by two people from Gordon Clark and Associates of Whitehorse and a magnetometer and HLEM survey was

conducted from March 31-April 10, 1989 by:

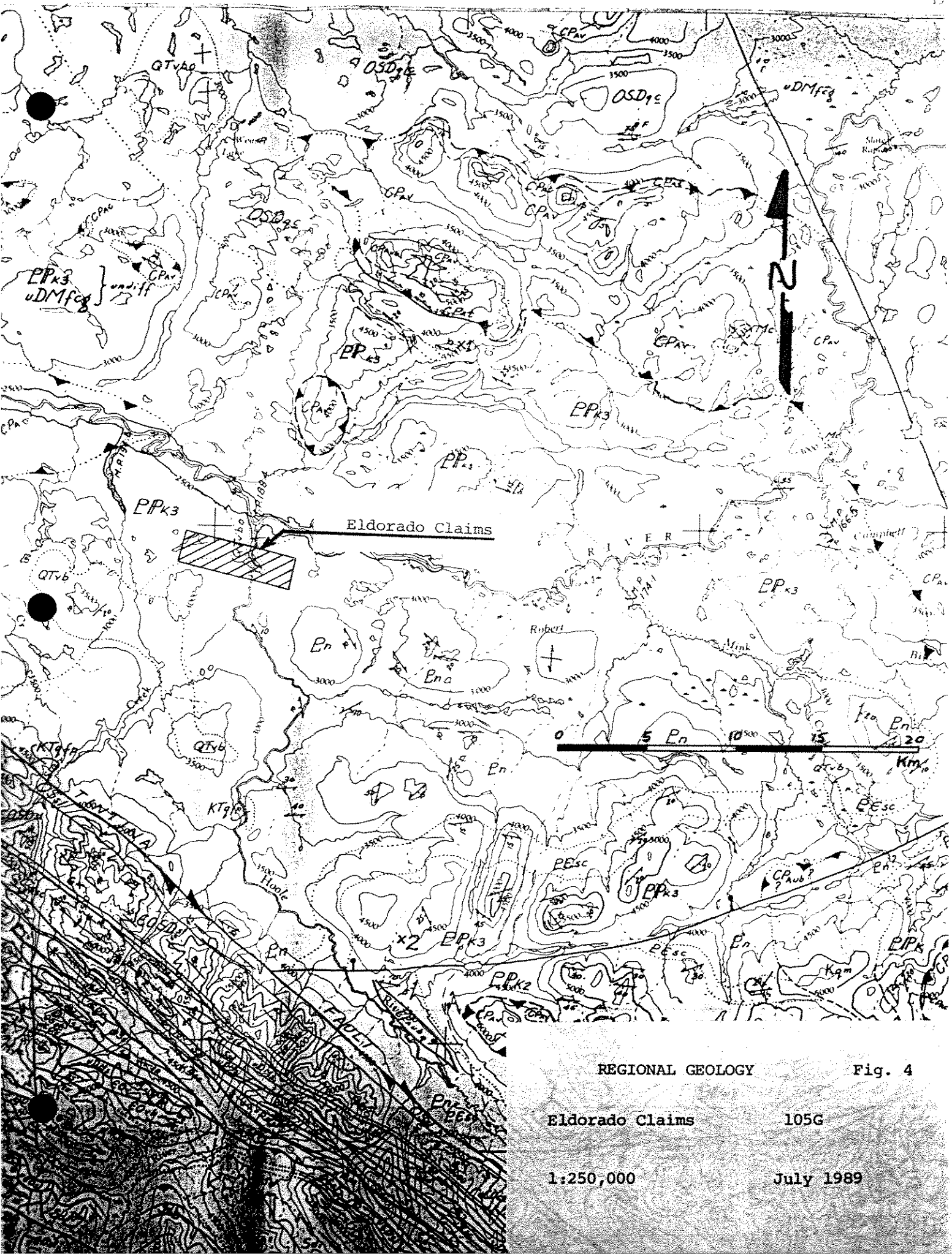
Gary Lee	Contract Geophysicist	Whitehorse, YT
Mike Powers	Contract Geophysicist	Whitehorse, YT

CHP 2 GEOLOGY

2-1 REGIONAL GEOLOGY (see fig. 4)

The claims lie along the northeast boundary of the Tintina Trench, a large transcurrent Tertiary-Cretaceous fault system. The trench in this area separates two tectonic terranes, the Pelly-Cassiar to the southwest, and the Anvil Allochthon to the northeast. The Pelly-Cassiar terrane consists largely of phyllite, argillite, and chert of the Kechika Group, whereas the Anvil Terrane comprises mafic flows and tuffs. The Anvil units are thought to be allochthonous (Templeman-Kluit, 1977). Also present in the claim area are allochthonous units of Klondike Schist in a structurally complex sequence northeast of the trench.

Recent mapping in the area (Jackson, et. al., 1986) has distinguished a bimodal suite of rhyolite intrusions and flows of olivine basalt, and tuff breccia, some of which will occur near the claims. Recent dating of these rocks has assigned a Paleogene date to them. Another unit of note in this area are small ultramafic bodies thought to be Mississippian-Permian in age. These units are easily distinguished on airborne magnetic maps.



REGIONAL GEOLOGY

Fig. 4

Eldorado Claims

105G

1:250,000

July 1989

TABLE OF FORMATIONS

after Templeman-Kluit GSC Open File 486

Late Tertiary or Quaternary

QTVb basalt and basalt breccia

QTVbo olivine basalt

Tertiary or Late Cretaceous

Tqfp white quartz feldspar rhyolite porphyry

Cretaceous

Kqmp biotite quartz monzonite

Devonian to Triassic

PMgdm protomylonite and mylonite

Carboniferous and Permian

CPav basalt and augite porphyry

CPat chert and cherty tuff

CPab pyroxene gabbro

CPaub dunite, peridotite, and pyroxenite

CPas serpentized peridotite and pyroxenite

Age Unknown

PPK3 KLONDIKE SCHIST Muscovite chlorite quartz phyllite

Pn biotite muscovite quartz feldspar augen gneiss

2-2 PROPERTY GEOLOGY

The claims are underlain primarily by a phyllitic and schistose unit regionally mapped as the Klondike Schist. The rock is a pale green to brown muscovite-chlorite-quartz schist that is strongly sheared and silicified locally. The best age that can be pinned down on this unit is Paleozoic. Exposed along the river bank are sections of columnar jointed basalt, probably the youngest unit on the property.

Exposure is quite poor away from the canyon exposed by the Hoolle River. Thick sequences of glacial till cover most of the property to the east and west of the river. It is suspected that an ultramafic body exists at depth on the west side of the river. This was the probable drill target of Newmont in the 60's. The government airborne indicates a large mag anomaly in this area.

An extensive program of geological mapping is proposed for the claims in the summer of 1989.

CHP 3 GEOCHEMISTRY

3-1 Procedure

A total of 187 soil, 19 rock, and 2 silt samples were collected during July 88 on the original soil grid. The samples were taken from the B-horizon at an approximate depth from 30-50 cm. The samples were collected in standard kraft soil bags and air dried before being shipped to Noranda's Vancouver Lab. The samples were analysed for Cu, Pb, Zn, Ag, As, and Au, using standard AA methods. Rock samples were prepared at Noranda's Lab and sent to Acme Labs of Vancouver for a 30 element ICP analysis.

3-2 Results

Complete soil and rock results are included in the appendix. The grid location is shown superimposed over the new geophysical grid on Fig. 5 along with the locations of the rock samples.

Soil results were dissappointing, possibly due to the heavy till cover over the soil sampling grid. Most gold values were at background or detection limits. Only two values (20&40 ppb) were above background. A number of zinc values were elevated but no pattern could be determined from the numbers. The best response albeit weak anomalies were obtained from arsenic (30-100 ppm). It is a possibility that mercury could be the best pathfinder for this type of overburden. It is recommended that any further soil sampling be analysed for mercury.

Rock samples from the main showing and adjacent areas were more encouraging. Best values came from the showing itself which assayed as high as .436 opt Au in grab samples. Other smaller more disseminated showings also ran anomalous gold (R24981, 82, 86). Each had correspondingly high Cu & Ag. Some samples of carbonate altered schist (R24991-95) had elevated Ni values (39-336 ppm), these may represent some sort of enrichment due to the emplacement of an ultramafic body with associated carbonate-listwanite alteration.

From these preliminary investigations it appears that gold mineralization is tied in with arsenopyrite and copper mineralization is associated with more pyrite rich, arsenopyrite poor areas. In addition carbonate altered rocks have elevated copper and nickel although gold is not anomalous in any of these samples. It is recommended that more rock sampling and trenching be carried out especially in the area of the showings. It will be necessary to open up these showings in order to fully evaluate the potential of them.

CHP. 4 GEOPHYSICS

4-1 PROCEDURE

Magnetometer surveys utilized a Proton Precession mag manufactured by EDA Instruments of Toronto. All field readings were taken at 12.5 metre intervals on lines 100 metres apart. The HLEM survey utilized a Scintrex SE-88 (Genie) system with a 100 metre coil separation and readings taken every 25 metres. For the VLF survey an EM-16 instrument was used with readings approximately every 12.5 metres. The Seattle, Washington station was used for the survey.

A total of 27.2 km. of magnetometer, 19.5 km. of HLEM, and 4.3 km. of VLF were completed.

4-2 RESULTS (see figs. 6,7,8,9)

The following results are taken from interpretations by Noranda's District Geophysicist Lyndon Bradish:

1988 Mag Survey

A prominent mag high is recorded over the northwest portion of the grid whereas the rest of the survey is very smooth. The high maps an east-west zone of high susceptibility believed to be a wide mafic/ultramafic dyke.

1988 VLF Survey

The interpretation is believed to be influenced highly by topography and the use of the VLF on this property should only be in a positive support role.

1989 HLEM and Mag Survey

The EM has mapped a wide discontinuous conductor across the length of the grid. Conductivities vary from 16 Siemens at the west end of the grid to 40 Siemens at the east end. Several other small conductors are mapped and two of those of interest are located at the south ends of Lines 11000E and 11200E. The zone at 9500N is indicative of a source of limited depth extent, ie. a horizontal sheet. A change in geological environment is indicated by the two conductors on Lines 11800E to 12100E, this is reinforced by the magnetics as well.

The magnetics have identified a significant linear magnetic source cutting across the grid and parallel to the EM conductor.

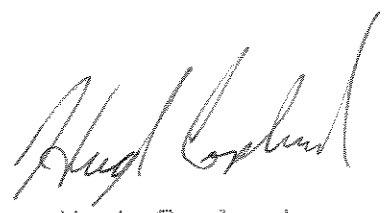
A number of structural breaks in the conductor axes occur between L10300E/10400E and 11100E/11300E but their exact orientation is unclear as their direction approaches those of the survey lines.

Field investigations of all geophysical anomalies is recommended in order to determine if they warrant drill target status.

CHP. 5 CONCLUSIONS AND RECOMMENDATIONS

Limited soil and rock sampling combined with an extensive geophysical program has outlined a number of interesting anomalies on the property that are worthy of follow-up. In particular the anomalous showings should be hand on cat trenched in order to determine their true extent. Further prospecting in areas of good exposure especially along the Hoole River canyon may prove to be fruitful in discovering new showings similiar to those found already.

All geophysical anomalies should be examined in the field although most are probably beneath extensive drift cover. Soil sampling results should be viewed with some doubt as the till may mask any strong anomalies. The region of the claims to the east of the river should also be examined for any relationships along strike.



Hugh Copland
July 1989

ASSESSMENT COST STATEMENT

Labour

June 30-July 5/88

G. Mackay:	\$ 115 x 6 days	\$ 690
B. Bark:	\$ 90 x "	540
R. Copland:	\$ 90 x "	540

September 17-18/88

J. Weir:	\$ 150 x 2 days	300
S. Keiser:	\$ 150 x 2 days	300

March 31-April 10/89

G. Lee:	\$ 175 x 11 days	1925
M. Powers:	\$ 175 x "	1925

Contract Linecutting

G. Clark and Associates:		5700
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Sub Total:	11920
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Food and Accomodation

June 30-July 5	18 m-d x \$50 (Camp)	900
September 17-18	4 m-d x \$50 (Camp)	200
March 30-April 11	26 m-d x \$125 (Welcome Inn)	3250

Sub Total:	4350
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Transportation

Truck Rental	21 days x \$50/day	1050
Oil and Gas		600

Sub Total:	1650
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Geochem Analysis

Soils: preparation and analysis	187 x \$10	1870
Rocks: " " "	19 x \$15	285

Sub Total:	2155
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Report Preparation

H. Copland	2 m-d x \$150	300
Draughting, typing, and reproductions:		500

Sub Total:	800
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TOTAL:	\$ \$ 20875
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SELECTED REFERENCES

Bradish, L.
1988/89: Eldorado Claims; Noranda Exploration Company Limited
Interoffice memos concerning Geophysical work.

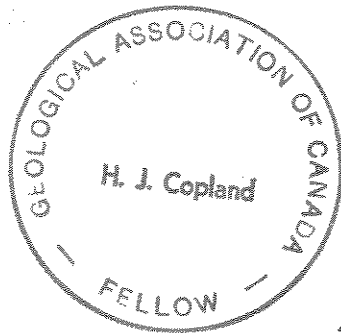
Jackson, L.E., et.al.
1986: Bimodal Paleogene Volcanics near Tintina Fault, east
central Yukon and their possible relationship to placer
gold: in Yukon Geology, Vol. 1 DIAND, p. 136-147.

Templeman-Kluit, D.
1977: Finlayson Lake Map Sheet, 105/6: GSC Open File 486

STATEMENT OF QUALIFICATIONS

I, Hugh Copland of the City of Whitehorse, Yukon do hereby certify that:

1. I have been an employee of Noranda Exploration Company Limited on a continuous basis since February 1987.
2. I am a graduate of The University of British Columbia with a B.Sc. (Honours) degree in Geological Sciences and a B.Eng from McMaster University.
3. I am a member of The Yukon Professional Geoscientists Society and A Fellow of The Geological Association of Canada.
4. I have practised my profession, primarily in the northern Cordillera for the past 10 seasons.
5. I supervised work on the Eldorado Claims in 1988 and 1989.



Hugh Copland
 July 18/89

APPENDICES

Eldorado

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: Y. T. GENERAL

CODE : 8806-046

Project No. : 312 Sheet: 1 of 4
Material : 188 SOILS & Geol. : G. M.
Remarks : 2 SILTS

Values in PPM, except where noted.

T.	SAMPLE No.	PPB					
		Cu	Zn	Pb	Ag	As	Au
2	5600E-6700N. SOIL	2	18	1	0.2	6	10
3	6750	16	310	1	0.2	8	10
4	6800	10	200	1	0.2	4	10
5	6850	20	120	6	0.4	62	10
6	6900	6	20	1	0.2	4	10
7	7025	12	72	8	0.4	20	10
8	7050	24	56	4	0.4	12	10
9	7100	4	20	1	0.2	10	10
10	7150	12	40	1	0.2	12	10
11	7200	12	110	6	0.4	14	10
12	7250	28	120	10	0.6	26	10
13	5600E-7300N	84	80	6	0.6	8	10
14	5700E-6700N	24	84	10	0.6	24	10
15	6750	18	74	8	0.4	18	10
16	6800	16	88	2	0.2	4	10
17	6950	6	26	4	0.2	1	10
18	6975	2	10	1	0.2	1	10
19	7025	4	34	1	0.2	6	10
20	7050	2	20	1	0.2	1	10
21	7100	10	56	8	0.2	18	10
22	7150	4	18	1	0.2	1	10
23	7200	22	60	1	0.2	8	10
24	5700E-7300N	18	96	2	0.2	6	10
25	5800E-6700N	16	76	2	0.2	4	10
26	6750	16	60	14	0.2	14	10
27	6800	18	84	12	0.4	32	10
28	6850	16	130	14	0.6	18	10
29	6950	26	240	12	0.6	16	10
30	6975	22	84	8	0.4	16	10
31	7025	14	110	1	0.2	4	10
32	7050	20	84	6	0.4	34	10
33	7100	16	72	1	0.2	2	10
34	7150	12	28	1	0.2	1	10
35	7200	20	100	8	0.4	18	10
36	7250	14	88	6	0.4	18	40
37	5800E-7300N	24	120	6	0.6	18	10
38	5900E-6700N	16	68	6	0.2	24	10
39	6750	30	86	6	0.2	20	10
40	6800	40	240	10	0.8	30	10
41	6850	12	46	1	0.2	6	10
42	6900	16	48	1	0.2	12	10
43	6950	18	68	8	0.4	24	10
44	6975	18	62	8	0.6	26	10
45	7025	36	110	6	0.6	24	10
46	5900E-7050N	22	70	10	0.4	32	10
47	6000E-6700N	20	90	6	0.4	12	10
48	6750	18	64	8	0.2	24	10
49	6000E-6800N	14	56	6	0.4	20	10

T.	SAMPLE No.	PPB					8806-046		
		Cu	Zn	Pb	Ag	As	Au	Pg.	2 of 4
0	6000E-6900N	16	120	1	0.2	12	10		
1	6950	10	66	1	0.2	10	10		
2	6975	14	24	1	0.2	12	10		
3	7025	46	68	8	0.6	24	10	-	
4	7050	10	26	1	0.2	6	10		
5	7100	22	32	1	0.2	8	10		
6	7150	20	58	8	0.4	22	10		
7	7200	10	38	1	0.2	4	10		
8	7250	30	72	6	0.6	12	10	-	
9	6000E-7300N	72	64	8	0.8	10	10	-	
0	6100E-6700N	12	84	10	0.4	8	10		
1	6750	24	78	10	0.6	10	10	-	
2	6800	16	64	16	0.4	26	10	-	
3	6850	12	58	6	0.4	20	10		
4	6900	16	54	1	0.2	6	10		
5	6950	14	52	6	0.4	12	10		
6	6975	14	82	8	0.4	10	10		
7	7025	10	50	4	0.2	12	20		
8	7050	14	120	12	0.4	12	10		
9	7100	28	130	12	0.8	2	10	-	
0	7150	10	110	14	0.4	16	10		
1	7200	14	90	14	0.4	16	10		
2	7250	14	86	10	0.6	18	10	-	
3	6100E-7300N	10	32	1	0.2	4	10		
4	6200E-6700N	12	78	14	0.4	26	10	-	
5	6750	22	90	8	0.6	16	10	-	
6	6800	24	68	10	0.4	36	10	-	
7	6850	18	82	12	0.6	32	10	-	
8	6900	18	130	1	0.2	10	10		
9	6950	8	30	1	0.2	2	10		
0	6975	22	32	1	0.4	4	10		
1	7025	12	110	1	0.2	1	10		
2	7050	26	32	1	0.6	4	10	-	
3	7100	22	62	6	0.6	14	10	-	
4	7150	12	78	8	0.4	16	10		
5	7200	14	70	10	0.4	24	10		
6	7250	16	96	10	0.4	12	10		
7	6200E-7300N	10	64	4	0.4	4	10		
8	6300E-6700N	36	220	14	1.0	6	10	-	
9	6800	18	100	8	0.4	10	10		
0	6850	8	28	1	0.2	1	10		
1	7050	8	20	1	0.2	1	10		
2	7150	4	18	1	0.2	1	10		
3	7200	14	64	10	0.6	14	10	-	
4	7250	26	98	16	0.6	18	10	-	
5	6300E-7300N	12	120	10	0.6	12	10	-	
6	6400E-6700N	48	98	16	0.8	14	10	-	
7	6900	4	18	1	0.2	2	10		
8	6950	28	72	12	0.6	34	10	-	
9	6400E-6975N	20	150	1	0.4	4	10		
0	CHECK NL-6	50	140	64	1.4	100			
1	6400E-7025N	16	84	22	0.8	26	10	-	
2	7150	16	34	1	0.2	2	10		
3	7200	24	76	8	0.6	8	10	-	
4	7250	12	72	4	0.4	6	10		
5	6400E-7300N	16	78	8	0.4	12	10		
6	6500E-6750N	16	66	6	0.6	12	10	-	

T. No.	SAMPLE No.	PPB 8806-046						Pg. 3 of 4	
		Cu	Zn	Pb	Ag	As	Au		
07	6500E-6800N	26	94	8	0.6	14	10		
08	6850	20	78	10	0.6	50	10		
09	6950	28	66	8	0.6	24	10		
10	6975	16	72	8	0.6	20	10		
11	7025	14	74	10	0.4	22	10		
12	7050	24	82	8	0.8	8	10		
13	7100	14	72	8	0.4	16	10		
14	7150	12	58	6	0.4	10	10		
15	7200	20	68	6	0.6	12	10		
16	7250	18	100	12	0.6	28	10		
17	6500E-7300N	10	110	8	0.4	14	10		
18	6600E-6700N	2	16	1	0.2	1	10		
19	6750	24	88	10	0.6	24	10		
20	6800	10	26	1	0.2	1	10		
21	6950	20	140	10	0.6	20	10		
22	7025	12	96	10	0.4	18	10		
23	7100	10	66	6	0.4	14	10		
24	7150	8	90	6	0.4	16	10		
25	7250	4	22	1	0.2	6	10		
26	6600E-7300N	8	54	6	0.4	8	10		
27	6700E-6700N	8	26	1	0.4	1	10		
28	6750	24	88	1	0.4	12	10		
29	6800	24	92	12	0.6	62	10		
30	6850	8	28	1	2.0	6	10		
31	6900	12	78	10	0.6	22	10		
32	6950	8	50	1	0.2	6	10		
33	6975	12	100	6	0.4	18	10		
34	7025	8	38	1	0.2	2	10		
35	7050	14	80	1	0.2	6	10		
36	7100	10	40	1	0.2	1	10		
37	7150	12	68	6	0.6	14	10		
38	7200	12	58	2	0.4	8	10		
39	6700E-7250N	14	68	6	0.4	20	10		
40	6800E-6800N	6	22	1	0.2	1	10		
41	6850	10	18	1	0.2	1	10		
42	6950	8	58	4	0.4	10	10		
43	6975	2	14	1	0.2	1	10		
44	7100	8	130	8	0.4	4	10		
45	6800E-7150N	24	130	12	0.6	10	10		
46	6900E-6700N	12	80	8	0.4	12	10		
47	6750	20	76	8	0.4	20	10		
48	6800	16	74	10	0.6	16	10		
49	6850	10	82	8	0.4	16	10		
50	6900	14	76	10	0.2	24	10		
51	6950	28	140	12	0.4	14	10		
52	6975	30	98	14	0.4	26	10		
53	7025	14	78	8	0.2	10	10		
54	7050	34	120	12	0.2	26	10		
55	6900E-7100N	26	94	10	0.2	22	10		
56	7000E-6700N	20	92	6	0.2	6	10		
57	6750	12	66	1	0.2	4	10		
58	6800	30	140	14	0.2	16	10		
59	6850	24	54	1	0.2	2	10		
60	6900	24	120	8	0.2	20	10		
61	6950	12	44	1	0.2	4	10		
62	6975	14	120	1	0.2	1	10		
63	7000E-7025N	24	200	10	0.2	6	10		

T. No.	SAMPLE No.	PPB 8806-046					Pg. 4 of 4	
		Cu	Zn	Pb	Ag	As	Au	
6	7000E-7050N	22	140	14	0.2	20	10	
7	7000N-5600E	10	40	1	0.2	1	10	
8	5650	18	42	2	0.2	1	10	
9	5700	4	34	1	0.2	1	10	
0	5800	22	30	1	0.2	1	10	
1	5900	16	64	6	0.2	10	10	
2	5950	26	52	2	0.2	1	10	
3	6000	18	84	10	0.2	6	10	
4	6050	14	66	10	0.2	14	10	
5	6100	10	58	8	0.2	6	10	
6	6150	18	84	12	0.2	28	10	—
7	6250	20	120	8	0.2	14	10	
8	6300	44	160	10	0.8	20	10	—
9	6400	20	74	10	0.2	28	10	—
0	6450	18	96	24	0.4	30	10	—
1	6500	18	86	10	0.4	12	10	
2	6550	4	18	1	0.2	1	10	
3	6600	24	70	4	0.2	8	10	
4	6650	4	18	1	0.2	1	10	
5	6700	14	120	8	0.4	84	10	—
6	6800	18	120	1	0.2	10	10	
7	6850	20	110	10	0.2	16	10	
8	6900	30	94	10	0.2	16	10	
9	6950	18	96	8	0.2	14	10	
0	7000N-7000E	18	230	16	0.2	22	10	
1	6200E-7150N	28	82	10	0.2	20	10	
2	7000N-6050E SOIL	32	88	8	0.2	18	10	
3	24977 SILT	14	76	4	0.2	4	10	
4	24979 SILT	16	100	4	0.2	4	10	

ICP - .500 GRAM SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-HNO3-H2O AT 95 DEG. ONE ROOT AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR XR 71 CA P LA CR NG BA TE B W AND LIMITED FOR XA AND AL. AD DETECTION LIMIT BY ICP IS 1 PPM.
 * SAMPLE TYPE: ROCK * ANALYSIS BY ACID LEACH/AA FROM 10 GR SAMPLE.

DATE RECEIVED: JUL 15 1988

DATE REPORT MAILED: July 20/88 ASSAYER: C. Leong, D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT 88-06-046-312-F3 File # 88-2004

SAMPLE	NO	Ca	Pb	Zn	Ag	Ni	Co	Mn	Fe	K	U	Am	Th	Si	Al	Sb	B	V	Cr	P	Li	Ct	Mg	Sn	Ti	B	Al	Na	K	Y	As*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
20257	1	78	14	31	.3	26	7	494	3.29	7	5	ND	10	143	1	5	2	39	3.52	.038	10	57	1.11	42	.16	2	3.15	.37	.13	1	1
20258	11	1	22	29	.1	7	1	2687	3.76	50	5	ND	1	111	1	2	2	12	1.22	.027	1	12	1.31	84	.01	1	.09	.02	.01	1	2
20259	1	1	3	11	.4	5	3	234	.57	8	5	ND	3	322	6	3	2	9	15.51	.027	25	17	.15	18	.07	8	1.15	.10	.03	1	1
20260	1	3296	11	27	.3	9	8	1157	1.99	3	5	ND	1	243	3	2	2	5	12.23	.001	14	5	.33	3	.01	8	.53	.01	.01	1	200
20261	1	1984	16	89	1.2	49	21	514	7.18	9	5	ND	21	31	1	2	2	17	.98	.055	27	46	1.71	26	.02	12	1.21	.01	.11	1	150
20262	1	15741	31	210	3.8	1	6	103	2.64	3	5	ND	1	9	1	1	2	2	.10	.002	2	1	.35	11	.01	2	.20	.01	.04	1	110
20263	1	179	10	10	.3	31	5	287	3.55	11	5	ND	11	123	1	2	2	39	3.68	.017	17	22	1.33	154	.12	9	5.51	.31	1.12	2	2
20264	1	133	7	93	.3	27	6	173	2.11	28	5	ND	11	63	3	100	2	10	3.55	.010	25	11	.31	253	.03	7	1.59	.01	1.70	1	2
20265	1	52	26	39	.2	13	5	1421	4.26	1	5	ND	1	494	3	9	2	8	15.13	.003	2	11	2.21	37	.01	2	.27	.02	.05	2	3
20266	1	101	154	24	.3	9	7	1524	2.21	11	5	ND	1	371	1	23	2	48	15.01	.031	6	11	.31	12	.01	4	1.14	.02	.01	1	1
20267	1	17	24	92	.2	325	37	1563	5.36	252	5	ND	1	172	3	16	1	57	9.51	.055	3	147	1.77	79	.01	2	3.31	.02	.03	1	1
20268	1	54	16	50	.1	114	22	1925	4.35	2	5	ND	1	221	6	2	2	10	11.59	.051	5	253	2.75	43	.14	2	2.42	.02	.04	1	1
20269	1	10	9	13	.3	35	7	2123	3.20	11	5	ND	1	116	7	2	2	11	17.55	.005	9	17	.71	17	.01	2	.81	.01	.02	1	1
20270	1	49	17	71	.2	151	21	614	5.12	19	5	ND	13	11	1	2	2	34	.63	.031	10	121	2.31	53	.01	12	2.37	.01	.11	1	5
20271	1	128	18	64	.2	174	34	708	5.81	2	5	ND	2	24	1	3	3	103	1.27	.001	7	346	1.30	111	.57	12	3.76	.01	.02	1	1
20272	1	771	2	10	.8	5	3	340	.55	71	5	ND	1	41	2	1	2	3	2.19	.003	12	6	.01	13	.01	1	.16	.01	.05	1	23
20273	11	57	43	121	5.3	43	29	1081	3.97	11	16	ND	37	15	20	16	11	39	.17	.085	42	40	.94	178	.07	32	1.92	.01	.15	14	510

THE ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUN 15 1988
12 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *June 20/88*

ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK
AU** AND AG** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION PROJECT-88-06-046-312-F3 File # 88-2004A

SAMPLE#	Ag** OZ/T	Au** OZ/T	
R 24983	.44	.436	2
R 24984	.40	.318	1
R 24985	.13	.128	3

AL Carlos samples (re-run)

re-run

Ag, As

PROPERTY Eldorado (A) Carlos

N.T.S. 105 G/12

DATE July 13th

ROCK SAMPLE REPORT

PROJECT 312

NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPLED BY		
					g	A	g	A	g	A	g	A		g	A
978	Float from soil hole Bl 7000N 6401E Oz Carbonate vein material Siderite,	-	Float												GCM
80	Upstade R. from showing Laminated limestone Slightly recrystallized	-	Float												
81	at falls, ~30m downstream from showing Chalcopyrite to 2% in small discontinuous Fe vein (bleb) Calcite W // Fe foliation in chlorite schists. Surrounded by zone of clay alteration	2%	O/C	10cm											
82	Sample of clay altered zone around 81	-	O/C	15cm											

PROPERTY

Eldorado (Al Carlos)

N.T.S. 105 6/12

DATE July 13th

PROJECT 312

ROCK SAMPLE REPORT

NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G		G		G		G		G		SAMPLED BY
					A	A	A	A	A	A	A	A			
983	10% pyrite 30% arsenopyrite in a QZ vein ≈ 20-40 cm thick ≈ // to foliation may cut (Smell the garlic, Eric!!!)	40%	o/c	1.1 m											GCM
984	3 m along strike UP stream	≈ 40%	o/c	60 cm											
985	10 m along strike down stream, vein appears to host tail into schists. 70% arsenopyrite 2% pyrite	22%	o/c	2.5 cm											
986	Plant 1/5/3 Chalcopyrite within QZ vein														
987	weakly foliated Argillite Black & grey banded. minor pyrrhotite	trace	o/c	25 m											

G = GEOCHEM A = ASSAY

PROPERTY

El Dorado (Al Carlos)

ROCK SAMPLE REPORT

N.T.S.

105 G/2

DATE

July 13th

PROJECT

312

NO	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G		A		G		A		SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
988	Qz Calcite streakways in brecciated chlorite schist. minor pyrite & epidote.	<1%	Scree	?									
989	Qz, Calcite and siderite veining in heavily altered chlorite schist	<1%	Scree	?									
990	Standard // to Rhinatron Qz Carb veining Trace sulphides Minor siderite.	Trace	O/C	.5M									
991	Altered chlorite schist Local.	-	Scree	-									
992	Hematite stained Carbonate altered Meta sediment.	-	Scree Scree										

G = GEOCHEM

A = ASSAY

PROPERTY Eldorado

N.T.S. 105 G/12

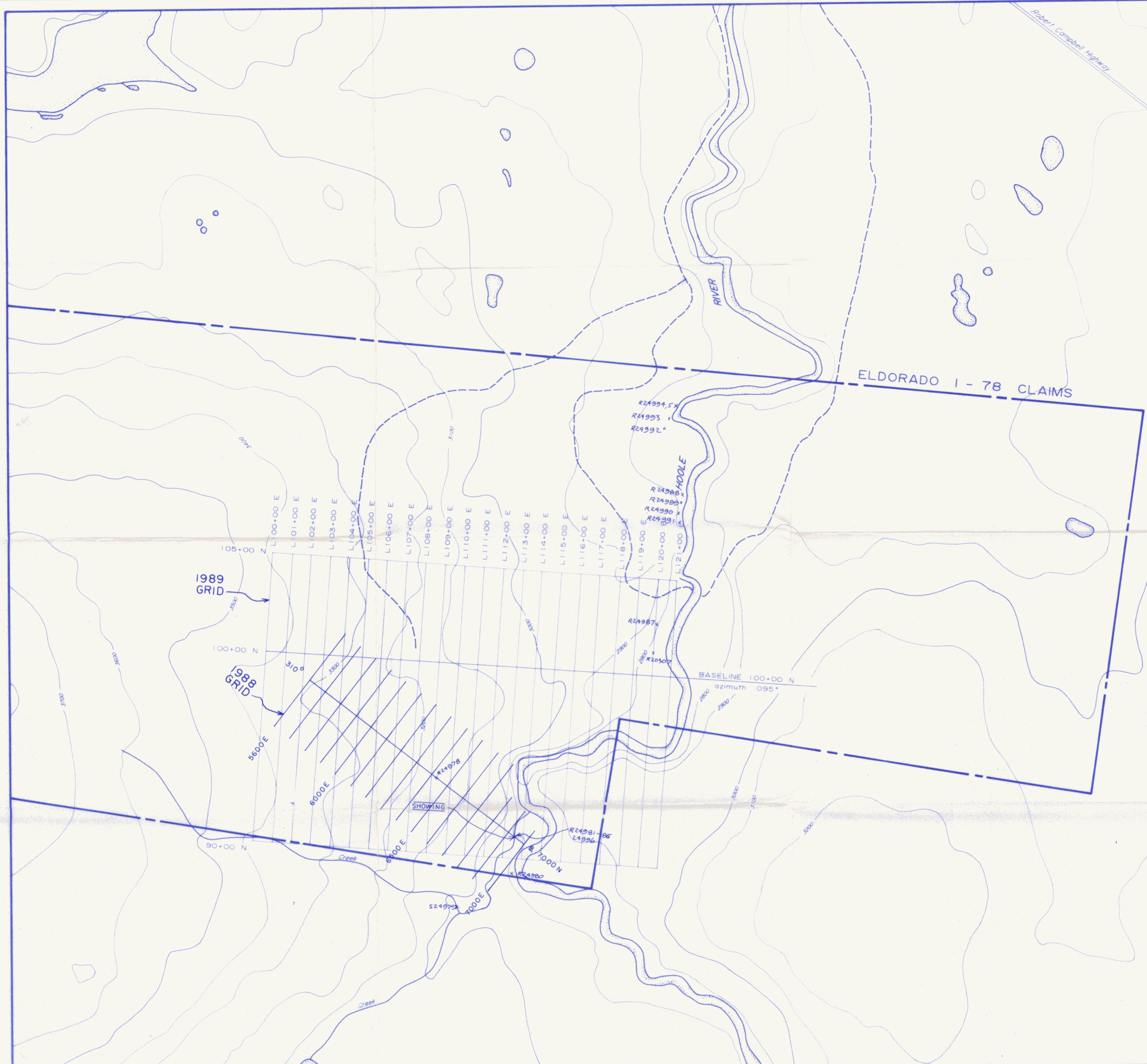
DATE July 13th

PROJECT 312

ROCK SAMPLE REPORT

LE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G		G		G		G		SAMPLE BY
					A	A	A	A	A	A	A	A	
1993	Qz Carb veining in brecciated chlorite schist												
1994	Sample of fault gouge near contact in Fertigny volcanics. Fault zone is 2.5 m. 1/2 m sample												
1995	Sample of Breccia Block in fault.												
1996	Float - Calcite vein in minor cpx at base of falls.												

G = GEOCHEM A = ASSAY

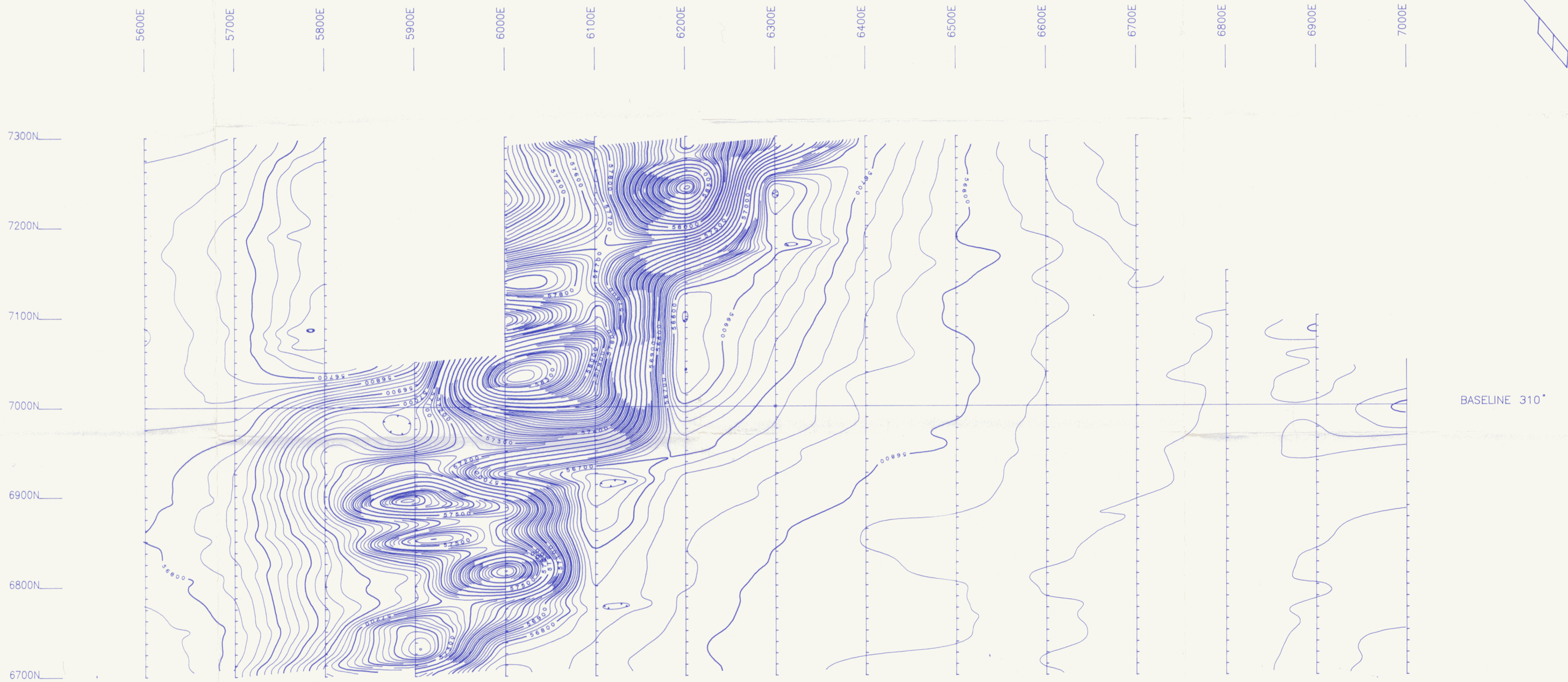


NORANDA EXPLORATION CO. LTD.

ELDORADO CLAIMS
GRID & ROCK SAMPLE LOCATION

N.T.S.	Geologist	Date
105 G/12		June 1989
Scale : 1 : 10,000	Draughting : Integratics Ltd.	Figure : 5

092741



Instrument : EDA MAG
 Field : TOTAL
 Datum : 0.0 nT
 Contour Interval : 25 nT
 Conductor Axis :

50m 25m 0m 50m 100m

Fig 6

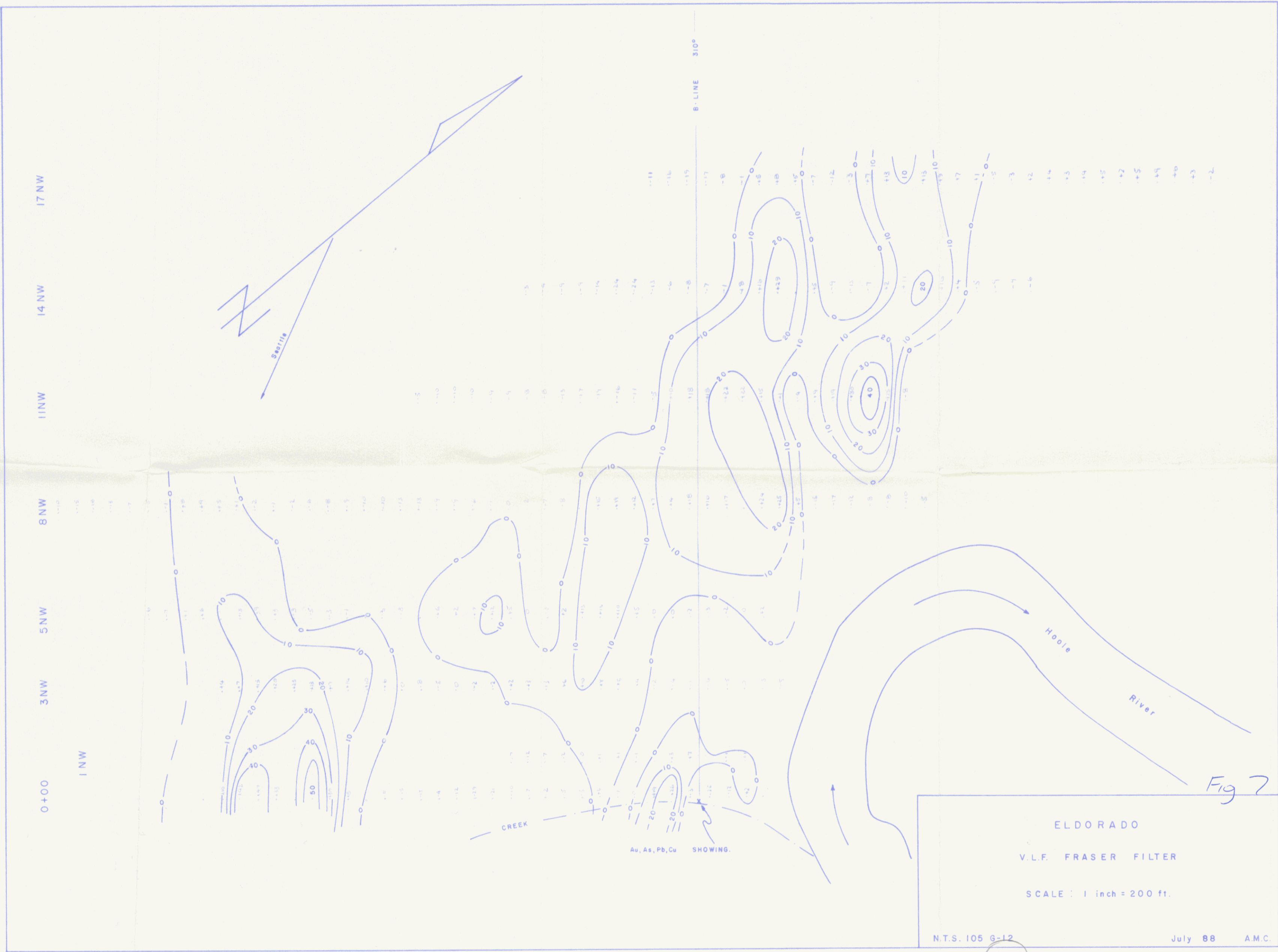
105 G 12 (100) **ELDORADO**

MAGNETOMETER SURVEY

PROJECT: ELDORADO PROJECT # : 312
 BASELINE AZIMUTH : 310 Deg.

SCALE = 1 : 2500 DATE : 9/17/88
 SURVEY BY : S.K.\J.D.W. NTS :
 FILE: M312ELD

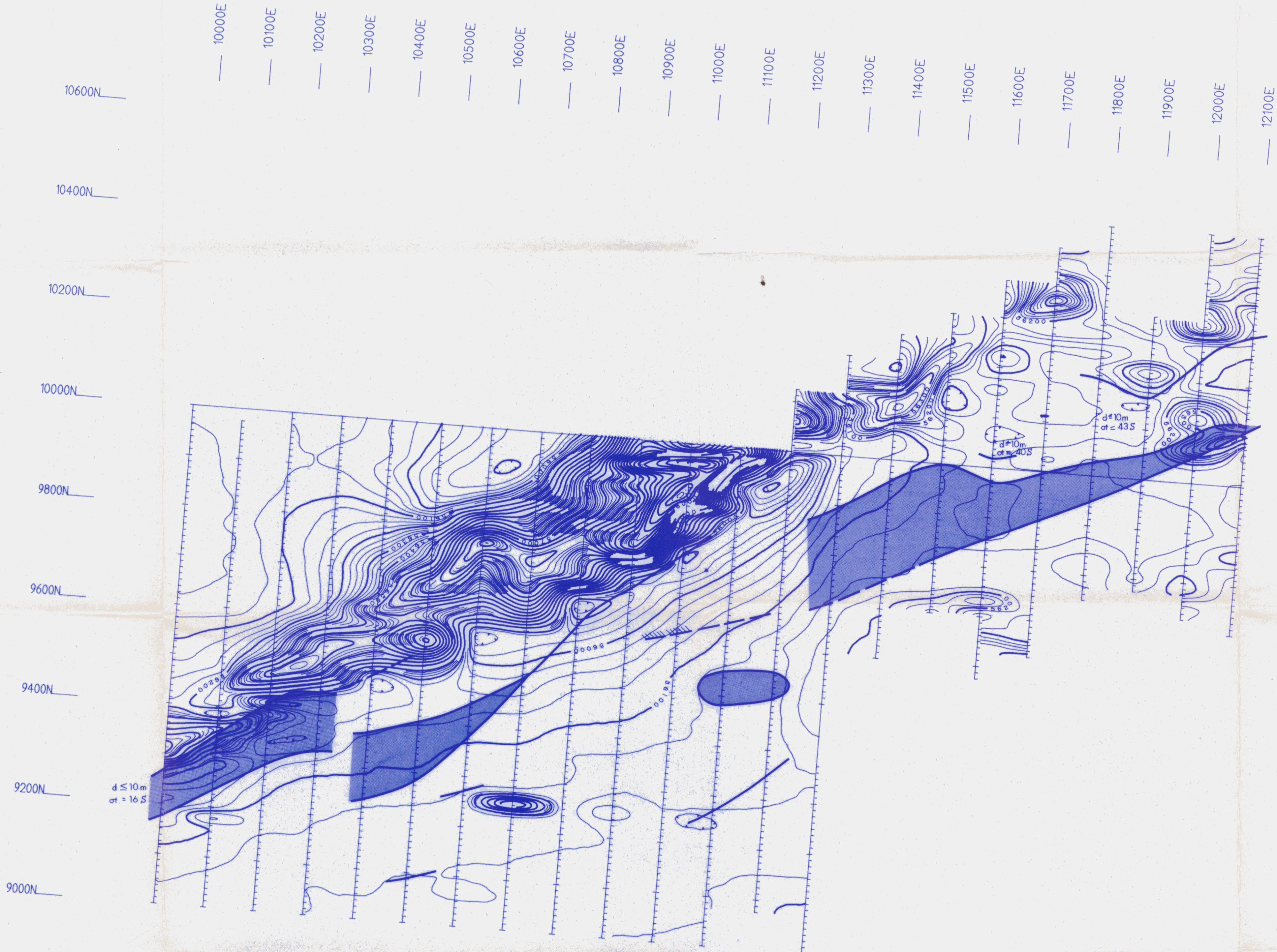
092741 NORANDA EXPLORATION



ELDORADO
 V.L.F. FRASER FILTER
 SCALE: 1 inch = 200 ft.
 N.T.S. 105 G-12 July 88 AMC.

101

092741



BASELINE 95°

Instrument	: 633334,63333
Field	: TOTAL
Datum	: 0.0 nT
Contour Interval	: 25 nT
Conductor Axis	:

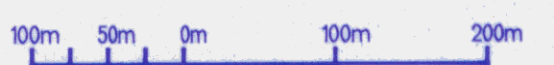


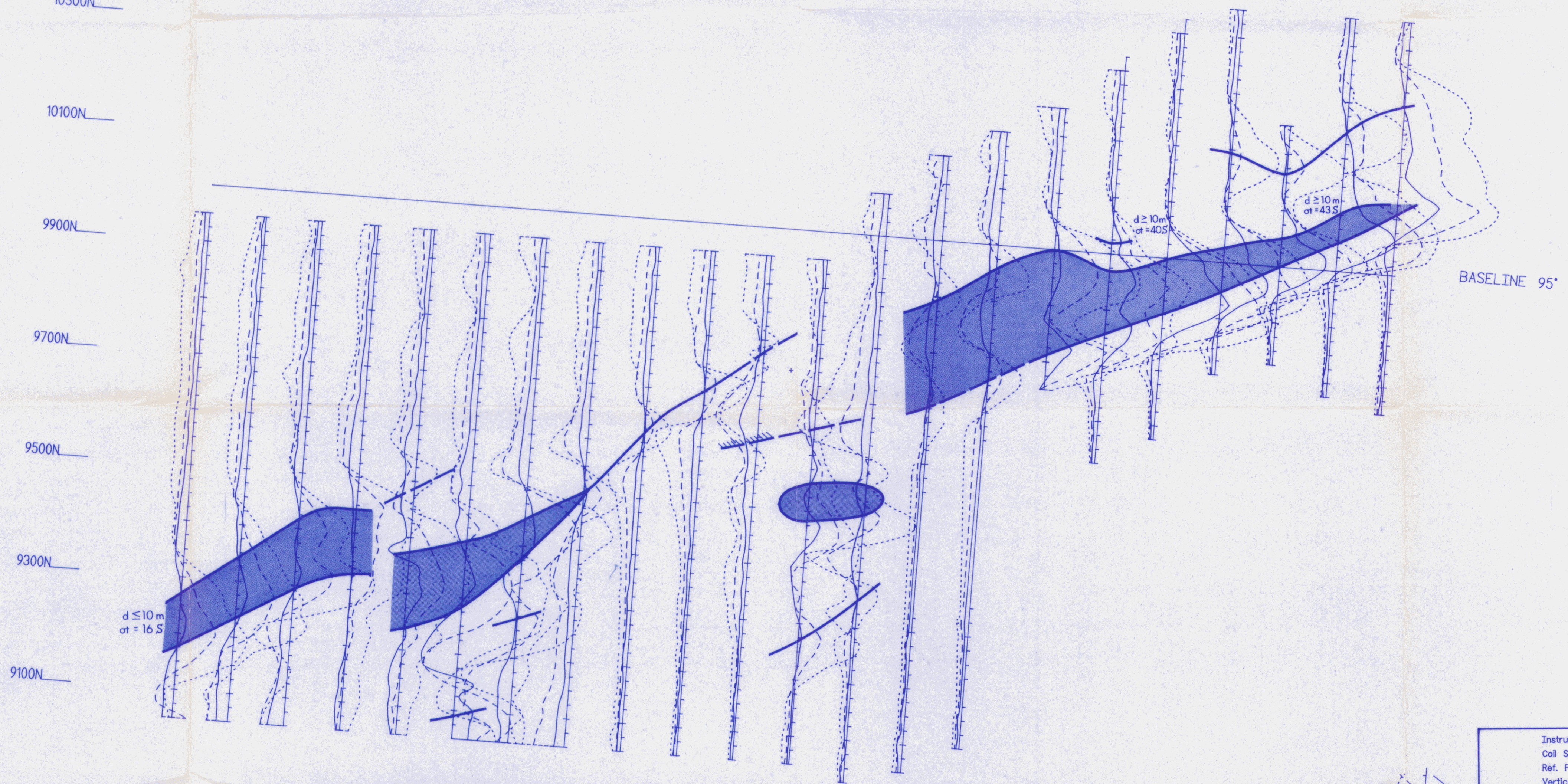
Fig. 8

ELDORADO	
MAGNETOMETER SURVEY	
PROJECT: ELDORADO	PROJECT # : 318
BASELINE AZIMUTH : 95 Deg.	
SCALE = 1 : 5000	DATE : 4/ 6/89
SURVEY BY : GLMP	NTS :
FILE: M318ELD	
NORANDA EXPLORATION	

105612 (102)

10500N
10300N
10100N
9900N
9700N
9500N
9300N
9100N

10000E
10100E
10200E
10300E
10400E
10500E
10600E
10700E
10800E
10900E
11000E
11100E
11200E
11300E
11400E
11500E
11600E
11700E
11800E
11900E
12000E
12100E



Instrument	: 780016
Coil Spacing	: 100m
Ref. Frequency	: 112 Hz
Vertical Scale	: 1 cm = 20%
Conductor Axis	:

100m 50m 0m 100m 200m

ELDORADO
SE-88 EM SURVEY

PROJECT: ELDORADO PROJECT # : 318
BASELINE AZIMUTH : 95 Deg.

SCALE = 1:5000 DATE : 3/31/89
SURVEY BY : GLMP NTS :
FILE: S318ELD
NORANDA EXPLORATION

Fig. 9

105612 (103)

092741