ARIS SUMMARY SHEET

Off Confidential: 92.09.09 District Geologist, Smithers MINING DIVISION: Liard ASSESSMENT REPORT 21896 Ball Creek **PROPERTY:** LONG 130 23 00 57 20 00 LAT LOCATION: 09 6355126 416718 UTM 104G08W NTS Ball 3-13 CLAIM(S): Noranda Ex. OPERATOR(S): Harrison, D.J.;Savell, M.J. AUTHOR(S): 1991, 79 Pages **REPORT YEAR:** Jurassic, Andesites, Dacites, Basalts, Tuffs, Rhyolites, Argillites **KEYWORDS:** Siltstones, Pyrite WORK Geological, Geophysical, Geochemical, Physical DONE: 12.9 km;HLEM EMGR Map(s) - 3; Scale(s) - 1:2500GEOL 3950.0 ha Map(s) - 2; Scale(s) - 1:10 000 15.0 km LINE 14.0 km MAGG Map(s) - 3; Scale(s) - 1:250053 sample(s) ;ME ROCK 196 sample(s) ;ME SOIL Map(s) - 9; Scale(s) - 1:5000RELATED 20617

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GEOLOGICAL, GEOCHEMICAL, AND GEOPHYSICAL

REPORT ON THE

BALL CREEK PROPERTY

N.T.S. 104 G/08 LIARD MINING DIVISION

Situated at: 57° 20' N 130° 23' W

NORANDA EXPLORATION COMPANY, LIMITED (no personal liability)

OCTOBER, 1991

GEOLOGICAL BRANCH ASSESSMENT REPORT

REPORT BY: DON HARRISON MIKE SAVELL

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1.0 SUMMARY

The Ball Creek property was originally staked to acquire several large soil gossans from which Au and Zn silt geochem anomalies appeared to originate. During the 1991 field season 346 soil and 78 rock samples were collected and ground EM and magnetic surveys were completed over selected areas. The soil samples were collected from three separate grids with stations at 25 m intervals along wing lines spaced 200 metres apart. Ten soil samples were collected on an east-west reconnaissance line every 25 metres on the east side of the BALL 1 claim. Results from the rock and soil samples were discouraging as most values reflected the average background metal content of the material sampled. The highest gold value overall was 99 ppb (grab). Sampling in two anomalous areas identified during the 1990 field season confirmed high levels of indicator elements with low precious metal values.

Local lithologies consist of Lower to Middle Jurassic volcanics and sediments. Volcanics consist of andesite, basalt and minor rhyolite; sediments consist of argillite, pebble conglomerate and interbedded argillite/siltstone. Mineralization on the property is predominantly pyrite occurring as disseminated blebs in andesite and as massive veinlets in argillite. Oxidation of these zones has produced several vivid red-orange gossans. Mineralized boulders containing chalcopyrite, galena and pyrite were discovered in the northern part of the property; analytical results range up to 4044 ppm Cu, 956 ppm Pb, 7882 ppm Zn.

There is no evidence to suggest that any of the airborne geophysical responses are due to massive sulphide conductors. They are attributed to weakly resistive carbonaceous argillites and hornfelsed and sheared magnetic diorite contacts.

Due to discouraging results obtained from the 1991 field program, no further work is warranted on the Ball Creek property at this time.

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2.0 INTRODUCTION

2.1 GENERAL REMARKS

The Ball Creek property was staked by Noranda in the fall of 1989 and spring of 1990 to acquire several large gossans which appear to be the source of multi-element silt anomalies detected by government RGS surveys.

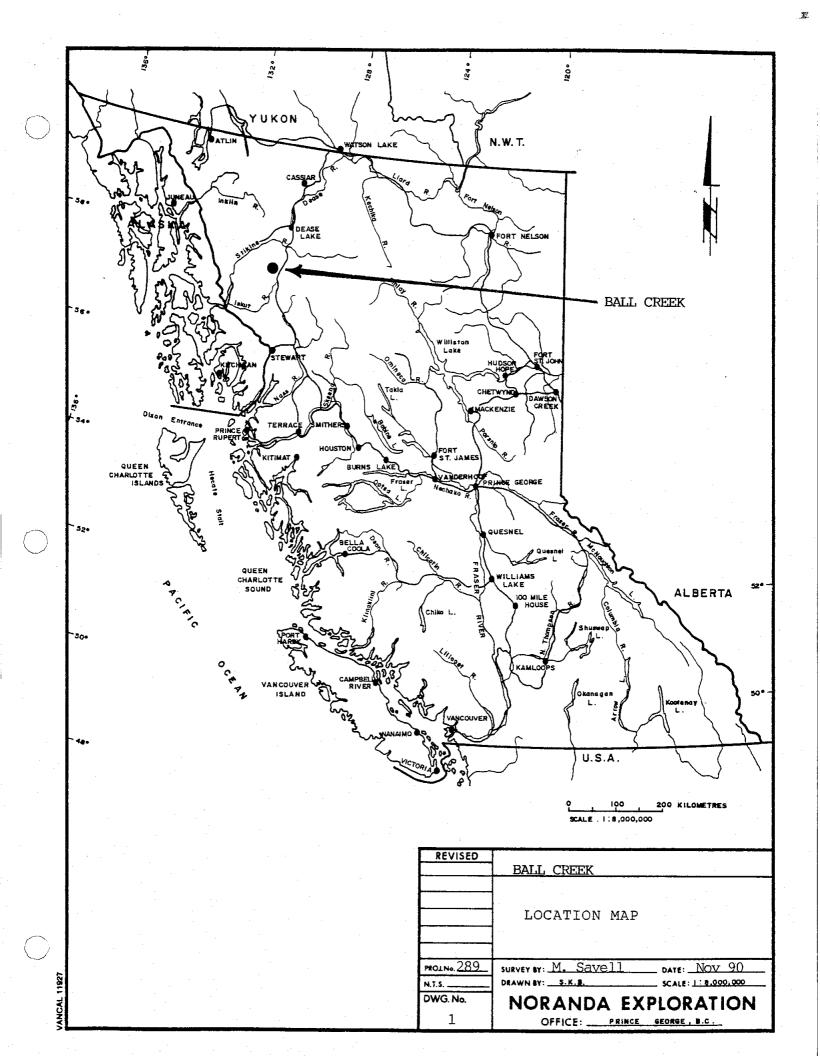
The 1991 program evaluated a number of geophysical anomalies and mineral occurrences located in 1990. During 1991, 346 soil and 78 rock samples were collected. Two 1990 soil grids were extended to provide geological, geochemical and geophysical coverage over areas underlain by airborne geophysical anomalies. A new grid was established on the Ball 13 claim to evaluate mineralization discovered in 1990. Geological mapping was completed on the grids and surrounding areas. Ground magnetics and HLEM surveys were completed on the three grid extensions. All airborne EM anomalies were ground checked by prospecting crews.

High Frontier Resources Ltd is currently earning a 50% interest in the property by providing funds for exploration expenditures.

2.2 LOCATION & ACCESS

The Ball Group of claims is situated 7 km northwest of the Burrage Creek airstrip located on highway 37 between Meziadin Junction and Dease Lake. Access to the property is by helicopter.

The claims are located in NTS 104 G/08 at 57 degrees 20 minutes North and 130 degrees 23 minutes West (Figure 1).



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2.3 CLAIM STATISTICS

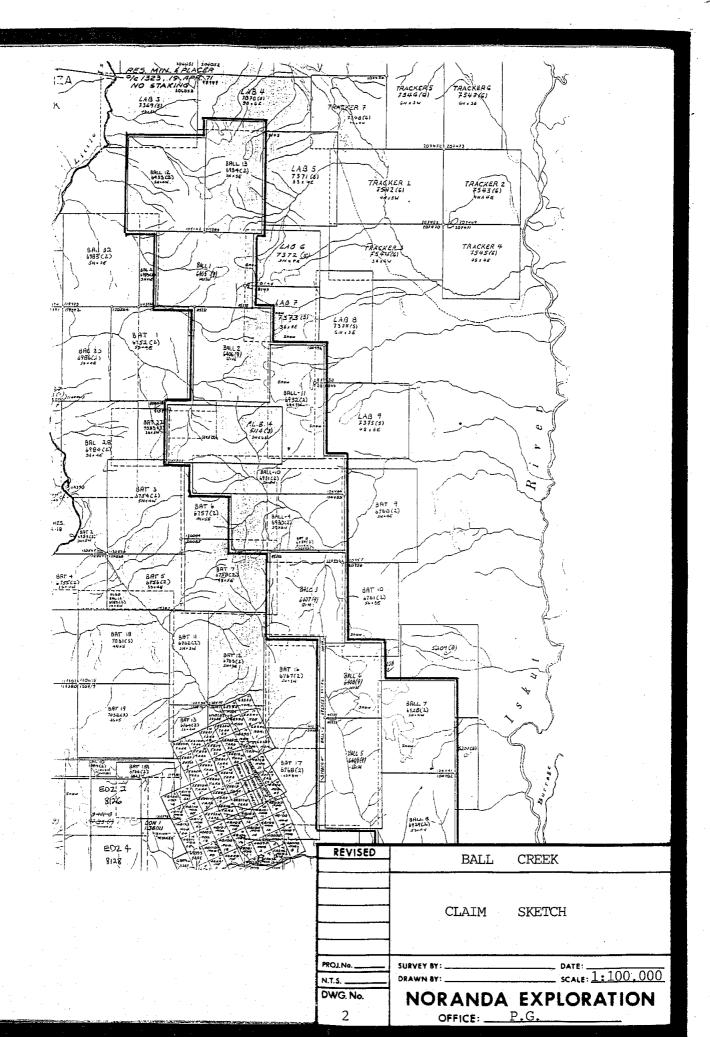
The property is comprised of three contiguous claim blocks (figures 2a, 2b, and 2c.) Upon acceptance of filed assessment, the claims will be in good standing as indicated below.

<u>Claim</u>	Units	Record #	Record Date	Expiry Date	Group Name
Ball 1	20	224335	Sept 10, 1989	1993	Ball 1
Ball 2	20	224336	Sept 10, 1989	1993	Ball 1
Ball 3	20	224337	Sept 11, 1989	1993	Ball 3
Ball 4	12	224338	Sept 11, 1989	1993	Ball 3
Ball 5	18	224339	Sept 10, 1989	1993	Ball 3
Ball 6	18	224845	Feb 22, 1990	1993	Ball South
Ball 7	20	224846	Feb 22, 1990	1993	Ball South
Ball 8	20	224847	Feb 22, 1990	1993	Ball South
Ball 9	18	224848	Feb 22, 1990	1993	Ball Central
Ball 10	16	224849	Feb 22, 1990	1993	Ball Central
Ball 11	18	224850	Feb 22, 1990	1993	Ball Central
Ball 12	20	224851	Feb 22, 1990	1993	Ball North
Ball 13	18	224852	Feb 22, 1990	1993	Ball North
PLB 4	18	223274	Aug 18, 1988	1993	PLB

2.4 TOPOGRAPHY & VEGETATION

Topography is characterized by a linear ridge of mountains with deeply incised creek valleys that rise up to form a broad valley in the Ball 3 claim area. There are several ice fields on the claims and patches of snow remain year round on north facing slopes. Elevations range from 682 to 2208 metres.

Large portions of the claims are covered with talus, rubble and gravels. Vegetation consists of patches of alpine grasses and scrub trees above treeline and the lower valley bottoms are forested with mature coniferous trees.



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2.5 PREVIOUS WORK

During the 1990 field season, Noranda Exploration carried out a 2 month field program based from two fly camps. A total of 1142 soil, 163 rock and 18 silt samples were collected in 129 mandays. Geophysical work consisting of HLEM and magnetic surveys were carried out on the established grids. There is no record of any previous work being performed on the property, however portions of earlier mineral claims have covered parts of the property.

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The area lies near the western edge of the Intermontane Belt of the Canadian Cordillera, where it parallels the Coast Plutonic Complex. Recent work by both the Geological Survey of Canada and the Geological Services Branch of British Columbia provides a framework of the complex geology of this rugged area. The area bounded, tectonostratigraphic includes four, unconformity assemblages: 1) Paleozoic Stikine Assemblage; 2) Triassic-Jurassic volcano-plutonic complexes of Stikinia; 3) Middle and Upper Jurassic Bowser overlap assemblage; and 4) Tertiary Coast Plutonic Complex (Anderson, 1989). This section of the Intermontane Belt forms the west limb of the "Stikine Arch," a roughly horseshoe shaped area of Upper Triassic to Jurassic stratigraphy that hosts most of the significant mineral deposits in northwest B.C. and also the Toodoggone gold camp.

The Paleozoic Stikine Assemblage contains the oldest stratigraphy and is divisible into three distinct, volcaniccarbonate units: Early Devonian limestones and intermediate to felsic volcanics; Mississippian bioclastic limestones; and Permian fragmental volcanics and limestone. These rocks are generally metamorphosed and highly deformed.

The Triassic-Jurassic volcano-plutonic complexes (Stewart Complex) consist of the Triassic Stuhini Group and the Jurassic Hazleton Group. The Stuhini Group consists of limestones and mafic volcanics deposited in an island arc environment. The Stuhini hosts the Snip and Johnny Mountain structural gold deposits. Hazleton Group rocks consist of andesitic breccias/lavas, felsic tuffs/breccias, and maroon-green volcanic sediments (siltstone, greywacke, conglomerate and black shale) deposited in an island arc

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environment. Black shales (Eskay Creek Facies) overlying felsic volcanics (Mt. Dilworth Fm) host the Eskay Creek gold deposits.

Sub-volcanic intrusions accompany most of the volcanic centres of the Mesozoic island arcs and range from Alaskan type ultramafics to felsic dykes. Distinctive porphyritic dykes link Upper Triassic and Lower Jurassic volcanics with their plutonic equivalents. Many of the significant mineral deposits in the Stewart Complex have a close association with volcanic centres.

The Middle and Upper Jurassic Bowser Overlap Assemblage consists of turbidite black clastics deposited in the Bowser Basin which formed as a result of uplift to the west due to emplacement of the Coast Range Intrusives.

The Tertiary Coast Plutonic Complex consists of post-tectonic, felsic plutons. Eastward younging of strata and local zones of high strain attest to intrusion and uplift of the complex.

Locally, Tertiary to Recent subaerial volcanics cover low lying areas.

The prime target of current exploration on the property is a precious metal enriched polymetallic massive sulphide deposit similar to that at Eskay Creek. The Eskay Creek deposit is contained within black argillites and mudstones of the Eskay Creek Facies immediately hanging wall to felsic volcanics of the Mt. Dilworth Formation. The deposit consists of pyrite, sphalerite, and galena with minor arsenic, antimony and mercury sulphides in both stratiform and crosscutting massive and stringer zones. Both exhalative and epithermal processes may have contributed to the formation of the deposit.

3.2 LOCAL GEOLOGY

The Ball Creek property is underlain by Middle Jurassic volcanics and sediments. Volcanics consist of medium to dark greygreen pillowed andesite and dacite, dark grey basalt, tan to medium brown trachytic tuffs, rhyolite and fine grained synvolcanic intrusives. Sediments are comprised of black argillites, dark grey to black siltstones and pebble conglomerate. Based on stratigraphic relationships and fossil assemblages, this volcanosedimentary package of rocks has been correlated with the "Eskay Creek Facies" by the G.S.C. Thin, laterally extensive horizons of felsic volcanics are possible Mt. Dilworth Formation equivalents.

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Lithologies

- Unit 1 Trachytic tuff medium to dark grey.
- Unit 2 Syenitic/Trachytic crystal lithic tuff/breccia tan to light brown.
- Unit 3 Argillite and Welded Tuff black, very fine grained, laminated, pyritic; includes pebble conglomerate (3a) and interbedded siltstone and argillite (3b). Distinction between argillite and tuff visible only in thin section.
- Unit 4 Andesite/Dacite medium to dark grey-green, aphanitic to feldspar porphyritic, occasional zeolite filled amygdules. Extensive sections of well preserved pillows with minor flow and pillow breccias. Gossanous weathering due to oxidation of disseminated and stringer pyrite in bleached/altered areas. Includes thin, though laterally extensive pale rhyolites and cherts (4a).
- Unit 5 Basaltic Flows/Volcanoclastics dark grey to black, massive, fine grained.
- Unit 6 Brecciated, Altered Trachytic Tuff pale brown to green, Probable Tertiary age.
- Unit 7 Microdiorite dark green to black, fine grained hornblende diorite.

The northern portion of the property is characterized by high, gently sloping plateaus of talus and felsenmeer of greenish, grey, maroon and brown andesite with areas of microdiorite intrusives. The andesites are massive and vesicular, and at the eastern portion of BALL 1 claim are locally columnar jointed. Topographically below the plateaus in the southwest corner of BALL 1 and northwest corner of BALL 2 are pyrite rich green chloritic altered andesites which form prominent gossans on the southwest facing slope. Pyrite occurs as disseminations (2-5%) and as fine, massive veinlets (up to 10\%) in what may be pillow breccias.

In the saddle at 1980 m. elevation on the east side of the Ball 2 claim are exposures of brownish fine clastic sediments (siltstone?) with buff to white mottled patches (secondary hydrous minerals?). This rock is inter-layered between thick beds of pillow breccia andesite flows. The altered sediments are visible as buff-orange coloured zones which can be intermittently traced at least 2 kilometres to the south east onto the BALL 11 claim. The

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bedding orientation of the volcanic-sediment sequence is north to northwesterly dipping -40 to -65 degrees to the east. Major northwest fault structures separate the submarine volcanics and sediment sequence to the east from fine grained grey siltstones and fissile black argillites to the west. These rocks also dip eastward up to -60 degrees and are strongly folded about northwest and northerly axes. Southwestward onto the PLB 4 claim occur rusty weathered quartz-lithic wacke and poorly sorted pebble conglomerate which dip to the west, and overly the rock units to the east.

Black fine-grained clastic sediments with minor conglomerate and wacke underlie the western half of the BALL 10 claim, with andesitic volcanics to the east. A large resistant exposure of rusty weathered rhyolite breccia with 50% white rhyolite fragments in dark grey to black siliceous matrix and trace pyrite outcrops near the midpoint of the southern line of the BALL 10 claim.

To the southeast onto the BALL 9 claim, a southeast flowing creek appears to follow the trace of a fault structure. Black argillite and blocky andesite are exposed in outcrops along the creek bed. Bedding is northwesterly and one outcrop exhibits argillites folded along a fold axis plunging 20 degrees to the north northwest. Southeastward along the creek are good exposures of pillowed andesites locally rich (5-10%) in disseminated pyrite and massive, very fine-grained greenish pyritic mud(?) which appear to be rimming the pillows. These zones form strong gossans along the creek edges.

The grid extension on the BALL 3 claim west of baseline 10,000E consists of a monotonous package of variably coloured (green, grey, brown, maroon) angular andesite felsenmeer with local minor pyritic zones. At the south end of BALL 3 at L10400N, 10250E, is another outcrop of rhyolite breccia of 50% white rhyolite in a black siliceous matrix. The rock type is unique with respect to the surrounding lithologies, but due to such isolated occurrences, is not a mappable unit.

The southern grid extension on the BALL 5 claim was established over an area with moderate outcrop exposure through subalpine juniper and spruce. The entire area is underlain by volcanic flows of dacite or andesite. Prominent gossans on the east side of the southward flowing creek reflect areas of high pyrite concentrations. Black, fine-grained, well indurated argillites exposed in a creek bottom at L7200N, 9890E consist of 5% massive, syngenetic pyrite lenses up to 5 cm wide and 1 metre long, every 20 to 30 cm along bedding. The andesitic volcanics are similarly pyritic (up to 5 to 20%), with fine-grained greenish (exhalitive?) pyrite forms the matrix around angular dacite/

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andesite fragments, possibly forming proximal to submarine hotspring vents. At the southeast corner of BALL 5, similar andesites carry abundant (up to 10-15%) pyrite as disseminations and pyritic rinds around pillow structures. This area is noticeable due to the orange-brown gossans developed on the steep slopes.

Structure

Attitudes of sedimentary beds found on the property strike from 320° to 340° and dip 10° to 60° to the east. The sedimentary package of argillite and interbedded argillite/siltstone is sandwiched between two periods of volcanic activity. Outcrops of tuff interbedded with rhyolites have approximately the same attitudes as the sediments. Several small quartz veins located near 1220N, 10250E have an attitude of 292 Azm/-70 S.

Alteration

Alteration is observed within volcanic units that contain pyrite. Weak chloritic, sericitic, silicic and argillic alteration is manifested by oxidation and bleaching. The presence of sphene and potassic feldspars was observed in thin section.

Mineralization

Mineralization found on the property includes disseminated and stringer pyrite in veinlets up to 3 cm thick. Disseminated pyrite is found in the green andesites and occasionally in the rhyolites, weathering of which forms gossans. Percentages of pyrite range to Several boulders of quartz-calcite 5-10% of the rock volume. vein material discovered on Ball 12 and 13 contain minor pyrite, galena, chalcopyrite and trace amounts of malachite. Several dozen of these boulders were observed on the overburden covered slope and high plateau over a 300 by 600 metre area. The boulders are subangular and range in size from a few centimetres to 30 centimetres in diameter. Analytical results are listed in the rock geochemistry section below. Minor stibnite was observed in float of quartz-carbonate veined and altered volcanic material in the west-central area of the south grid; silver and gold values are negligible.

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4.0 AIRBORNE GEOPHYSICS GROUND EVALUATIONS

Figures 3 and 4 show a summary of significant features detected by the 1990 airborne geophysical survey. Several of the EM anomalies were followed up in 1990 and results of those surveys have been previously documented. The majority of the EM responses are characterized as weak, single flightline conductors of probable formational origin. All of the anomalies were closely scrutinized by detailed prospecting and mapping surveys which are summarized Two areas were selected as warranting further evaluation below. using ground geophysics: the south grid extension on the Ball 5 claim and the north grid extension on the Ball 3 claim. The anomalies are discussed below from south to north. The identifying numbers are the flight line number and letter designation given by Aerodat. Ground magnetic surveys were also performed on the Plateau Grid on the Ball 13 claim where mineralized float was located in 1990.

Anomaly 10120D, 10130C and 10150D,C:

Lines 6600N to 7200N were added and extended on the Ball 5 claim grid to facilitate geochem, magnetic and HLEM surveys to evaluate this anomaly. It is characterized as weak and of possible bedrock origin. It falls on trend of a belt of pyritic pillowed volcanics and argillites from which emanate strong As-Zn-Pb soil anomalies delineated in 1990. No significant HLEM response was detected indicating a very weak, if any, conductor. The geochem survey showed a few scattered, weakly anomalous As, Zn and Pb values and a single spot high of 20 ppb Au. Prospecting located several outcrops of brecciated, pyritic volcanics that returned no significant results.

Anomaly 10230A, 10240B, and 10250B

This series of weak anomalies was followed up with ground surveys in 1990. It covers the same trend as mentioned above. No significant results were obtained and the conductor is attributed to carbonaceous argillites.

Anomaly 10280AB

This anomaly is located in a rugged area underlain by rusty, weakly hornfelsed volcanics and fine dioritic dykes. The response has an associated positive magnetic high and is attributed to the magnetic dykes.

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Anomaly 10490A, 10500A and 10510B

Lines 11200N to 12000N on the Ball 3 claim grid were extended to the west and covered with geochem, magnetic, and HLEM surveys. It occurs in a flat meadow covered area with very little exposure. The HLEM survey data suggests a weak decrease in resistivity but no well defined conductors. Scattered single station geochem highs of 861 ppm Zn, 48 ppb Pb, 4627 ppm As and 15 ppb Au were obtained. As response is probably The high due to minor stibnite mineralization in quartz-carbonate altered volcanics similar to that observed south of the grid area. The airborne anomaly is probably due to carbonaceous argillites which outcrop in the central grid area.

Anomaly 10580A, B, C, 10591A, B, C, D, and 1600B, C:

A weak electromagnetic anomaly detected across three flight lines near the east side of the PLB 4 claim is coincident with a contact between a fine diorite dyke and rusty weathering, cherty hornfelsed, black sediments. The area is steep with plenty of outcrop. Detailed prospecting failed to locate any sulphides. The anomaly is attributed to resistivity and magnetic contrasts across the sediment-diorite contact.

Anomaly 10680B,C

This is a weak single flightline response detected along a steep narrow ridge underlain by white to rusty orange weathering, weakly hornfelsed andesite in contact with fine diorite dykes. It has an associated magnetic high and is attributed to the magnetic dykes and the abrupt change in slope.

Anomaly 10730A,B

This occurs in a steep, rugged area in a small cirque, and could not be safely accessed. Prospecting boulders at the base of the cirque in 1990 did not locate any mineralization.

Anomaly 10800A, B

This occurs on a ridge northeast of the north grid on the Ball 1 claim. There is abundant rubbly outcrops and felsenmeer over the area and the response is attributed to carbonaceous argillites. Soil samples returned minor, local elevations in Zn.

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Anomaly 10820A

This short, weak anomaly has an associated magnetic response and is located on the south wall of a steep sided cirque on the Ball 1 claim. The only reasonable explanation is a local decrease in resistivity due to shearing and serpentinization observed at a diorite-andesite contact.

5.0 GEOCHEMISTRY

5.1 SOILS

5.1.1 Method

During the 1991 field season, two of the 1990 grids were extended to cover areas containing AEM anomalies. Stations were established at 25 metre intervals on cross lines oriented at 250° azm. and spaced 200 m apart. On BALL 5 claim, the baseline was extended 600 metres to the south with four lines extended to the west; on BALL 3 claim, five new lines were extended to the west of the baseline. At the north end of the property on BALL 13, a new grid was established with a central baseline 1 km long and six cross lines run to the plateau edge. A total of 10.9 line kilometres of grid was added to the existing grid in 1991.

A total of 346 "B" horizon soil samples were collected during the 1991 field season. The samples were collected from depths between 15 and 35 cm, placed in kraft wet-strength paper bags, dried and then sent to Noranda's lab at 1050 Davie Street, Vancouver, B.C. for analysis. Samples were analyzed for 30 elements by ICP and Au by AA. Ag, As, Cu, Pb, and Zn results are plotted on 1:5,000 scale maps accompanying this report. Selected contour intervals are plotted. The analytical procedure is described in Appendix II and Certificates of Analysis listed in Appendix III.

5.1.2 Results

Soil geochemistry from the 1991 program was disappointing. The analyses reflect the background trace levels of the elements as opposed to enrichment from ore-forming processes.

On the north plateau, the highest gold value was 30 ppb, with the average being the detection limit of 5 ppb. The highest and average values are listed below for the north plateau grid:

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Element	<u>High</u>	Average
Silver	1.0 ppm	0.2 ppm
Copper	138 ppm	approx. 40 ppm
Lead	33 ppm	approx. 12 ppm
Zinc	535 ppm	approx. 155 ppm
Arsenic	65 ppm	approx. 10 ppm

The BALL 1 reconnaissance line failed to pick up any geochemical response which might have been related to the airborne geophysical anomaly. The results reflect low background levels of the base and precious metal elements.

The BALL 3 grid extension soil samples returned very low values with spot highs of little significance. All gold results were minimum detection limit except for station 11400N, 9675 which returned 15 ppb gold. The highest silver value of 0.8 ppm was at 11800N, 9400E, along with the highest copper and zinc, which ran 75 ppm and 861 ppm respectively. Station 11600N, 9750E returned an unusual high of 4627 ppm arsenic, and the highest lead value of 48 ppm.

The grid extension on BALL 5 also returned discouraging results. All samples were at the detection limit of 5 ppb gold, except at station 7000N, 9275E which had 20 ppb gold. Silver values generally ranged from 0.2 ppm to 0.6 ppm with a high of 1.4 ppm. Other elements were extremely low, as indicated by the following maximum values: arsenic 42 ppm, cadmium 4.5 ppm, copper 62 ppm, lead 8 ppm, zinc 620 ppm.

5.2 ROCKS

5.2.1 Method

A total of 78 rock samples were collected and analyzed for 30 elements (ICP) and Au (A.A.). The samples were shipped to ACME Analytical Laboratories Ltd., 852 E. Hastings St., Vancouver, B. C. for analysis. Sample descriptions are listed in Appendix V and certificates of analysis are in Appendix IV.

5.2.2 Results

Of the 78 rock samples collected, five contained what may be considered anomalous values. No significant gold or silver values were obtained. No new anomalous zones were discovered in 1991, as the high geochem results confirmed the mineralization found the

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previous year. Elevated values of copper, zinc and silver occur in float on the north plateau associated with drusy, vuggy quartz stringers from 10 to 30 cm wide. The highest geochem results are 99 ppb gold, 7.7 ppm silver, 4044 ppm copper and 7882 ppm zinc.

The other area of anomalous mineralization is on the BALL 6 claim at the western edge of the property. In this area, iron carbonate cemented quartz breccia float (felsenmeer) hosts trace stibnite and 1-2% disseminated arsenopyrite. Arsenic values range up to 17706 ppm, and antimony ranges up to 15357 ppm. Gold and silver are 2 ppb and 0.4 ppm respectively.

Numerous areas on the property contained abundant pyrite enrichment as disseminations, veinlets and massive vein and breccia filling, however, very low base and precious metal results were obtained.

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6.0 CONCLUSIONS

The Ball Creek property is underlain by Middle Jurassic volcanics and sediments thought to be a northern extension of the Eskay Creek facies. Thin, laterally extensive felsic horizons may be distal equivalents of the Mt. Dilworth Formation.

The geological features observed on the Ball Creek property indicate that the area was once a rifted sedimentary basin which became infilled with a succession of submarine volcanic flows and sedimentary deposits. Pillow lavas rich in iron-sulphide erupted from elongate seamounts which developed along the rift zone, and submarine vents emitted pyritic fluids throughout the volcanicsedimentary pile. Fragmental rocks of tuff, breccia, wacke and conglomerate may represent marginal facies deposited on the flanks of the seamounts as they became emergent. The geological features indicate the environment is favourable for the formation of a goldrich massive sulphide deposit. The presence of such a deposit has not been identified in the programs conducted over the past two years.

There is no evidence to suggest that any of the airborne geophysical responses are due to massive sulphide conductors. They are attributed to weakly resistive carbonaceous argillites and hornfelsed and sheared magnetic diorite contacts.

7.0 RECOMMENDATIONS

Due to the disappointing results obtained from the 1991 follow-up program, no further work is warranted at this time. The PLB 4 claim should be returned to the vendor.

Geological, Geochemical, and Geophysical Report on the BALL CREEK PROPERTY

8.0 REFERENCES

- Souther, J. G., 1972: Telegraph Creek Map-Area, British Columbia (Report and Map 11-1971). G.S.C. of Canada.
- Anderson and Thorkelson, 1990: Mesozoic stratigraphy and setting form some mineral deposits in iskut River Map area, northwestern B.C. In Current Research, Part E, Geological Survey of Canada, Paper 90-1F, p 131-139. 1990.

Campbell, Savell, Wong, 1990: Geological, Geochemical, and Geophysical Report on the Ball Creek Property. Assessment Report.

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STATEMENT OF QUALIFICATIONS

I. Don J. Harrison, who resides at 3685 W. 11th Avenue, Vancouver, B. C., do certify that:

- 1. I graduated from the University of British Columbia in 1984 with a Bachelor of Science degree in Geological Sciences.
- 2 I have worked in the field of mineral exploration on a regular basis since 1981.
- 3. I am a member of the Geological Association of Canada and the B.C. Yukon Chamber of Mines.
- 4. The work outlined in this report was performed by myself working as a contract employee for Noranda Exploration Company Limited (no personal liability), and others under my supervision, during the 1991 field season, unless stated otherwise.
- 5 I have no direct or indirect interest in the Snoball property, nor do I expect to receive any.

Don J. Harrison Geoløgist

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APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Michael Savell, of the City of Prince George, Province of British Columbia, do certify that:

1. I am a geologist residing at 3507 Rosia Road, Prince George, British Columbia.

- I am a graduate of Dalhousie University, Halifax, Nova Scotia with a Bachelor's of Science (Honours) degree in Geology.
- 3. I am a member in good standing of the Geological Association of Canada, the Prospector's and Developer's Association and the B.C.-Yukon Chamber of Mines.
- 4. I presently hold the position of Sr. Project Geologist with Noranda Exploration Company, Limited and have been in their employ since 1980.

Michael Savell Sr. Project Geologist Noranda Exploration Co., Ltd. (no personal liability)

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APPENDIX II

ANALYTICAL PROCEDURE

ANALYTICAL PROCEDURE

Soils, Silts, Rocks

The samples are dried and screened to -80 mesh. Rock samples are pulverized to -120 mesh. A 0.2 gram sample is digested with 3 ml of HClO₄/HNO₃ (4 to 1 ratio) at 203° C for four hours, and diluted to 11 ml with water. A Leeman PS 3000 is used to determine elemental contents by I.C.P. Note that the major oxide elements and Ba, Be, Ce, Ga, La and Li are rarely dissolved completely from geological materials with this acid dissolution method.

For Au analyses, a 10.0 gram sample of -80 mesh material is digested with aqua regia and determination made by A.A.

Heavy Mineral Concentrates

The entire concentrate is digested in aqua regia solution, and elemental concentrations of Au, Ag, Cu, Pb, and Zn are determined by A.A.

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APPENDIX III

CERTIFICATES OF ANALYSIS - SOILS

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Geol.: M.S. Date received: AUG.06 Au - 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB) 1 ml with water. Leeman PS3000 ICP determined elemental contents. om geological materials with this acid dissolution method. Cu Fe K In J: ** Sheet: 1 of 5

1991

9108-015

SEP 2.

LAB CODE:

* Sample screened @ -35 MESH (0.5 mm)

180 SOILS

BALL CREEK - 289

Project Name & No.:

Material:

Remarks:

¤ Organic, & Humus, S Sulfide ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

T.T.	SAMPLE		Au	Λg	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Мо	Na	Ni	P	Pb	Sr	Ti	v	Zn
No.	No.		ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ррш		ppm	ррт	%	ррт	%	ppm	ppm	%	ppm	ррт
2	6600N-9200E		5	0.2	4.00	2	- 96	1.5	5	0.22	0.2	32	18	27	20	5.04	0.14	16	9	0.33	978	3	0.06	8	0.21	2	20	0.43	132	96
3	9225	¤	5	0.2	2.47	4	86	0.6	5	0.13	0.2	19	7	32	19	5.53	0.12	14	5	0.23	443	6	0.06	7	0.17	7	17	0.69	189	84
4	9250		5	0,4	4.06	2	73	0.8	5	0.13	0,2	21	6	26	23	5.75	0.12	14	9	0.31	281	4	0.05	6	0.12	2	16	0.47	139	- 90
5	9275		5	0.2	3.56	11	188	1.3	5	0.81	0.7	38	26	18	34	7.51	0.13	16	19	1.07	1967	5	0.05	17	0.25	2	27	0.53	219	247
6	6600N-9300E		- 5	0.2	4.03	4	168	1.0	5	0.29	0.6	27	15	28	36	5.86	0.18	15	16	0.95	776	4	0.04	17	0.22	2	26	0.45	195	196
																													1000	
7	6600N-9325E	'	5	0.2	4.32	12	232	1.3	5	1.50	1.2	50	35	18	57	7.33	0.33	21	21	1.47	2155	1	0.05	30	0.13	3	55	0.46	237	315
8 · .	9375		5	0.4	3.47	39	135	0.9	5	1.78	2.5	38	78	10	62	13.09	0.07	19	25	2.28	4775	15	0.07	30	0.12	2	48	0.41	274	266
9	9400		5	0.4	4.74	42	206	1.4	5	1.04	4.5	82	63	8	61	8.70	0.29	43	23	2.68	5945	9	0.04	73	0.10	2	28	0.20	240	501
10	9425		5	0.2	3.60	12	146	1.0	5	1.45	1.4	44	. 22	15	38	5.54	0.20	17	14	1.16	922	4	0.05	22	0.10	2	31	0.42	207	235
11	6600N-9450E		5	0.6	3.77	3	168	1.1	5	0.32	0.8	25	14	27	26	6.27	0.24	13	17	0.77	972	6	0.04	17	0.17	2	15	0.47	218	270
																													1000	
12	6600N-9475E	*¤	5	0.4	4.23	6	0000000000			1.61	1.3	43	31	22	40	6.28	0.21	17		1.74			0.05		0.09	2	41	0.35	216	251
13	9500		5	0.6	4.47	8	164	1.2	5	1.05	1.5	54	22	31	- 38		0.36	16	31	1.00	1199	1000000000000	0.05	22	0.23	2	37	0.34	212	377
14	9525		5	1,0	4.38	9	177	1.5	5	1.10	1.3	- 58	15	32	46		0.37	26	- 38	0.80	826		0.05	23	0.22	2	39	0.30	239	295
15	9550		5	0.4	4.35	16	190	1.3		0.21	1.4	28	12	26	32		0.36	15	17	0.64	993		0.05		0.31	3	18	0.42	212	314
16	6600N9575E		5	0.6	3.66	24	280	1.0	5	0.36	2.7	30	19	21	34	6.36	0.37	14	14	0.62	1860	16	0.05	24	0.36	. 8	22	0.31	213	348
17	6600N-9600E		5	1.2	3.13	11	322	0.9	5	0.46	3.8	33	21	31	31		0.33	15	11	0.48	2911		0.06	15	0.39	4	29	0.49	214	215
18	9625		5	0.6	3.21	6	133	1.0	5	0.21	0.9	32	15	27	29		0.20	17	900000000000	0.42		9	0.08	13	0.31	2	17	0.63	204	171
19	9650		5	0.2	3.13	11	241	0.7	5	0.41	1.4	31	19	28	33		0.28	14	6,0000,000	0.55			0.06	15	0.36	4		0.41	254	219
20	9675 1	≠¤	5	0.2	3.30	8	236	0.9		0.70	1.0	38	24	25	34	6.29	0.24	15		0.63			0.05	18	0.32	5	38	0.38	198	221
21	6600N-9700E		5	0.2	4.59	2	152	1.2	5	1.37	0.7	52	22	18	32	5.06	0.15	18	15	0.58	2410	\$	0.05	18	0.20	- 4	74	0.40	138	178
																													1000	
22	6800N-9200E		5	0.2	3.84	2	145	0.9		0.25	0.5	29	21	39	43		0.18	15	15	0.78	1537		0.05		0.26	2	31	0.48	209	165
23	9225	*¤	5	0.2	2.69	3	104	0.5	5	0.19	1.1	23	19	31	26		0.20	12	8	0.34	1482		0.06	8 -	0.28	6	17	0.54	199 §	119
24	9250		5	0.2	3.21	3	142	0.9		0.22	0,4	30	16	28	- 29	6.47	0.16	15	14	0.64	1663	5	0.07		0.22	4	27	0.60	216	144
25	9275		5	0.2	4.47	2	79	1.3		0.12	0:2	43	5	28	- 24	4.45	0.16	21		0.17	197		0.07		0.19	- 4	13	0.50	122	69
26	6800N-9300E		5	0.2	4.62	2	103	1.6	5	0.20	0.3	45	- 10	25	- 28	4.75	0.18	20	14	0.47	429	4	0.08	12	0.23	4	17	0.49	137 (135
			_ į						_							·								_			_			
27	6800N-9325E		5	0,2	2.94	9	63	1.3		2.38	0,9	55	51	4	26	9.15	0.04	22		1.89			0.05	7	0.15	- 2		0.96	319	241
28	9350		5	0.2	3.70	11	119	1.0		1.76	1.8	40	47	18	62	7.34	0.11	19					0.07	31	0.11	2	32	0.48	240	239
29	.9400		5	0.2	3.80	12	195	1.1		0.78	1.6	42	19	18	- 38		0.31	20	090000 7 0500	0.97	911		0.05	24	0.14	5	28	0.37	211	294
30	9425		5	0.2	4.22	11	228	1.2	5	1.18	2.4	47	22	23	49		0.43	23					0.05		0.13	4	39	0.39	234	351
31	6800N-9450E		5	0,2	2.88	6	97	0.6	5	0.11	1.0	20	8	29	20	6.78	0.20	14	8	0.34	776	8	0.07	7	0.24	2	14	0.49	173	131
			_ 8																											
32	6800N-9475E	•¤	5	1.4	3.74	4	139	2.0		0.62	2.0	40	18	29	28		0.30	45		0.57			0.05		0.43	5	27	0.22	173	157
33	9500		5	0.8	4.57	6	105	0.9		0.19	0.8	33	10	26			0.22	16		0.58	316		0.05		0.21	3	14	0.44	161	169
34	9525		5	0.6	4.05	6	123	1.4		0.33	0,9	31	10	27	- 24	4.44	0.20	19		0.61	405		0.05		0.20	4	20	0.45	160	181
35	9550		5	0.2	3.34	9	137	1.0		0.20	0.9	25	10	26	21		0.16	13	01000000000		1275		0.07		0.25	2	14	0.51	167	156
36	6800N-9575E		5 🖇	0.2	2.78	11	147	0.7	5	0.30	1.4	25	14	24	22	6.26	0.20	13	13	0.65	1717	6	0.06	12	0.18	6	17	0.56	213 🖗	186

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

30/.8 PG DP

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T.T.		Au Ag	Al	As Ba	Be	Bi	Ca	Cd	Се	Ċo	Cr Cu	Fe	K	Ĺa	Li	Mg	Mn	Мо	Na	Ni		Pb	Sr	Ti		Zn 9108	
No.	No.	ppb ppm	%	ppm ppm	ppm						ppm ppm	<u>%</u>			pm		ppm			_		ррт				ppm Pg. 2	2 of 5
37	6800N-9600E	5 0.2		10 136	0.8		0.26	1:6	27	13	22 22			14			1098	20000000000	0.06		0.21	6		0.44	162	177	
38	9625	5 0.2		15 138	0.7		0.14	1.1	25	14	26 27	7.18	0.26	12	1000000	0.76	740		0.05		0.21	3		0.46	223	246	
39	9650	5 0.2		14 157	1.4		0.42	1.8	. 48	15	18 29		0.25	19		0.81	677		0.05			4		0.36	178	259	
40 41	9675 6800N-9700E	5 0.2		20 199	1.1		0.53	2.7	43	19	20 34			18	Sec. 200		971		0.04		0.16	3		0.33	210	2. C.	
41	000011-9700E	5 1.0	5.71	35 536	1.5	С	0.35	2.6	53	21	24 58	6.52	1.05	31	17	1.01	1172	20	0.05	39	0.15	6	43	0.20	294	620	
42	6800N-9725E	5 0.2	3.88	10 177	12	۲	1.00	1.9	51	23	17 92	5.45	0.20	- 11 🖉		1.05	1750	<u></u>	0.05		0.12	•	39	0.38	200	272	
43	9750	20032020	4.87	10 177 12 170	1.2 1.5		1.09 1.55	1.9 2.4	51	32	17 36 13 60	5.45 6.85		21 24		1.05	-	******	0.05		0.12	3		0.50	200	309	
44	9775		4.87	8 210	1.5		1.05	0.8	61 69	32 28	22 46			24	00.00000	1.40			0.05		0.13	4		0.30	178	248	
45	6800N-9800E	5 0.2	:	7 156	1.5		0.76	0.5	51	20	19 32			21			1146	83-96-6 C	0.05		0.14	7		0.37	1/0	195	
46	7000N-9200E		4.17	7 113	1.0		0.49	0.5	35	31	10000.70000	7.23		16		0.89			0.07		0.12	2		0.45	198	155	
10	700014 520015	5 0.4	4.17	, 113	1.1	J	0.49	0.0	55	51	19 .47	1.20	0.15	- N @		0.09	6		0.00	10	0.20		21	0.00	170	1.7.7	
47	7000N-9225E	5 0.2	2.94	8 111	0.8	5	0.26	0.5	24	15	21 25	6.85	0.13	12	12	0.61	1382	6	0.06	11	0.25	,	18	0.50	201	142	
48	9250	5 0.2		11 101	1.3		0.80	1.1	48	30	15 30		0.12	17	ACA - 45 S -	0.88	5		0.04		0.21	2			190	219	
49	9275	20 0.2	-	9 86	1.2		0.21	0.2	32	16		7.91	0.12	16	Sec. 2010.00	0.54			0.04		0.22	$\tilde{2}$		0.56	201	123	1
51	9300	5 0.2	3.12	2 117	1.3		0.19	0.2	24	17	27 23			15		0.39		~~~~	0.06		0.26	2		0.53	181	118	
52	7000N-9325E	5 0.2	2.89	3 97	0.9		0.12	0.6	22	15	200922009233		0.19	13	0.000000	0.28		5	0.06		0.26	2		0.49	135	92	
																•									_		
53	7000N-9350E	5 0.2	3.45	4 85	0.8	5	0.14	0.2	27	10	24 24	4.77	0.14	14 🐰	10	0.38	663	5	0.06	9	0.21	2	13	0.41	138	106	1
54	9375	5 0.2		5 134	1.0		0.41	0.4	37	17	23 26	6.54	0.15	16 🔮			1021		0.06		0.22	2		0.48	191	156	1
55	9400	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4.17	5 192	1.5	5	0.93	0,9	56	30	17 44		0.23	21 🛞		1.14			0.05		0.19	3		0.37	207	253	. j .
56	9425	5 0.2	4.47	2 180	1.5	-	0.76	0.7	51	30	19 44			21	e e se	1.17	20		0.05		0.23	- 4		0.42	227	245	
57	7000N-9475E	5 0.2	3.74	12 189	1.1	5	0.64	1.6	40	23	20 37	5.59	0.28	17 🎡	15	0.91	1535	7	0.05	22	0.18	5	23	0.36	218	304	
60	BOOM A COOL	- 888	2.02			-	0.75					4.00	0.00			0.74	1.5.10		0.00		0.14		~ ~ ~		100		
58	7000N-9500E	5 0.2		8 181	0.8		0.75	1.8	40	20	18 31	4.98		16	99938529	0.76			0.06		0.16	<u></u>		0.34	. 192	241	
59	7200N-9200E	5 0.2		2 96	0.8		0.13	0.3	28	7	22 18			14	() () () () () () () () () () () () () (0.33	433		0.06		0.23	2		0.41	117	91 151	
60	9225 9250	5 0.2		3 118 4 115	1.2		0.32	0.5	33 63	17	21 22	5.98		15 23		0.48 0.87			0.06		0.34 0.18	3		0.46 0.45	180 150	151 150	
61 62	7200N-9275E	5 0.2 5 0.2	4.48 2.87	4 115 3 89	1.9 0.7		1.07 0.61	0.3 0.2	30	19 4	12 26 23 12	5.65 3.20		13		0.87			0.08 0.05		0.18	4		0.45	130	66	
02	120014-921313	5 0.2	2.07	5	0.7	5	0.01	U.2	.50	4	25 12	5.20	0.17	ci 🤅	•	0.21	112 3		0.05	0	0.20		34	0.00	152		
63	7200N-9300E	5 0.2	3.89	2 70	1.0	5	0.24	0.2	27	9	23 21	5.48	0.14	14	9	0.41	535	6	0.06	0	0.24	2	17	0.52	136	92	
64	9325	5 0.2	3.68	2 88	1.3		0.32	0.2	37	ģ	00000000000	4.55		18		0.37	843	5.6655.6666	0.07		0.30	៍		0.49	133	96	
65	9350	5 0.2	2.70	7 157	0.9		0.56	0.6	32	20	25 28	6.39		13		0.57	- 1 C - X		0.06		0.38	4		0.50	207	162	
66	9375	5 0.2		2 135	1.7		0.85	0.4	65	21	18 34	5.76		26			1355		0.07		0.22	2		0.44	186	161	
67	7200N-9400E	5 0.2	3.90	9 119	1.3		1.15	0.6	48	19	22 39			20		0.85			0.05		0.25			0.30	221	202	
			0.00	- diak		2	, in the second s					0.00		- T 33		0.00	1000		0.00				00	01200			
68	7200N-9425E	5 0.2	4.07	9 138	1.5	5	1.09	0.9	63	23	16 37	6.10	0.20	23	18	1.07	1344	5	0.06	21	0.18	2	49	0.40	207	229	
69	11200N-9400E	5 0.2	4.41	2 89	1.7	5	0.17	0.2	59	10	20 23	5.27	0.18	27	12	0.33	724	5	0.12	10	0.18	2	14	0.45	101	102	
70	9425	5 0.2	4.31	10 152	2.1	5	0.17	0.2	61	12	22 25	5.43	0.27	27	17	0.52	895	6	0.09	15	0.18	2	19	0.37	137	138	1
71	9450	5 0.2	4.01	4 98	2.7	5	0.10	0.2	79	4 ·	17 18	4.70	0.17	41 🎆	13	0.20	356	4	0.11	5	0.17	- 4	13	0.24	61	92	1
72	11200N-9475E	5 0.2	4.63	22 220	1.4	5	0.32	0.4	= 2	19	27 33	5.83	0.33	20 💹	19	0.87	1189	4	0.05	20	0.15	2	22	0.33	186	181	.
																	2003										
73	11200N-9500E	5 0.2	4.44	17 121	1.2		0.23	0.4	41	14	26 29	5.86		20	2006/2006	0.70	990	50000000AC	0.07		0.20	4		0.38	164	166	
74	9525	5 0.2		12 87	2.5		0.15	0.2	81	8	17 22	5.40		38	0000000		573	2000 C C C C C C C C C C C C C C C C C C	0.12		0.15	6		0.29	84	117	
75	9550	5 0.2		21 334	1.3		0.61	0.4	57	23	27 37			23		0.97			0.06		0.08	5		0.36	205	196	
76	9575	5 0.2	4.87	25 223	1.5		0.29	0.3	49	19	27 35		0.35	22	30 A A A A A A A A A A A A A A A A A A A	0.93	12		0.07		0.13	8		0.34	196	191	
17	11200N-9600E	5 0.2	4.63	9 153	3.6	3	0.15	0.2	119	5	11 21	5.17	0.19	55	14	0.28	699)	0.16	10	0.14	11	12	0.18	59	150	
70	11200N-9625E	5 0.2		7 100	15	5	0.17	0.2	50	6	22 22	4.75	0.10	- 15 👹		0.27	211		0.11	0	0.15		14	0 42	102	00	
78 79	11200IN-9625E 9650	5 0.2		32 280	1.5 1.3		0.17	0.2 0.9	50 - 52 -	6 22	22 21 22 41			25 23	12 17	0.27	311		0.11 0.06		0.15	6 10		0.43	102	89	
80	9675	1, 1997-1997	4.38	55 262	1.5		0.52	1.1	46	26		7.38		20			1205	8			0.10 0.13	10 11		0.32	198 235	247 247	
81	9700	T Apple 1971 19	4.13	10 171	1.4		0.12	0.2	51	14		5.14		23	555 - SA 19	0.44		os 20002.00	0.05		0.13			0.28	150	125	
•	11200N-9725E	5 0.2		17 159	1.4		0.44	0.5	55	22	21 32			23		0.75			0.07		0.16	-11 6		0.41	176	202	
								un territi											3.00			2		0.00			

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T.T.	SAMPLE	Λυ	Λg	Al	٨s	Ba	Bc	Bi	Са	Cd	Ce	Co	G	Cu	Fe	K	La	Li	Mg			Na	Ni		b S				1
No.	No.		ppm	%	ppm							ppm		ppm	<u>%</u>		ppm			ppm		<u>%</u>	ppm		n ppi		ppm		3 of 5
83	11200N-9750E	5	0.2	4.03		169	1.3		0.16	0.5	50	20	30	32		0.37	24	000000000		1666		0.06	16		936	2 0.30		22003333669	
84	9775	5	0.2	4.55	37	172	1.3	5	0.13	0.8	45	19	21	31		0.33	20		0.66		·/./······	0.05	19	0.18		7 0.29		20000000000	
85	9800	5	0.2	4.13	15	166	1.0	5	0.21	0.3	45	8	19	32	4.34	0.46	20		0.68	310		0.07	19	0.15	- eee	0 0.21			
86	9825	5	0.2	4.69	16	169	2.3	5	0.30	0.4	· 80	14	18	- 38	5.29	0.36	37	29	0.60	811	6	0.07	26	0.22		9 0.22		2000/2002/2020	
87	11200N-9850E	- 5	0.2	4.68	81	148	1.7	5	0.63	1.1	89	26	16	35	5.80	0.33	27	29	0.66	1400	8	0.04	22	0.15	7 3	5 0.26	5 214	1 271	
1					, 33																								
88	11200N-9875E	5	0.2	5.13	13	135	1.4	5	0.14	0.3	57	12	24	29	5.30	0.35	26	28	0.40	693	6	0.08	14	0.20		0 0.34		10-21-24-0-24-	
89	9900	5	0.2	3.95	9	132	1.0	5	0.27	0.5	43	15	23	28	4.12	0.33	17	18	0.60	787	4	0.07	14	0.20	52	0 0.31	166	5 184	
90	9925	5	0.2	3.81	17	209	1.3	5	0.34	0.9	47	19	19	31	5.51	0.52	20	20	0.70	1273	7	0.04	19	0.18	6 2	5 0.24		- 60002000000	
91	9950	5	0.2	3.56	11	182	1.2	5	0.47	1.2	35	20	16	32	5.27	0.42	17	15	0.66	1533	7	0.04	19	0.23	4 2	1 0.24	200) 244	
92	11200N-9975E	5	0.4	3.56	15	244	1.1	5	0.80	2.3	45	22	16	47	5.36	0.60	19	18	0.81	1601	7	0.05	26	0.12	9 3	6 0.23	3 198	3 294	
93	11400N9400E	5	0.2	3.24	15	209	1.2	5	0.24	0.7	37	15	21	33	4.92	0.34	17	15	0.60	825	12	0.06	25	0.10 📖	0 2	0 0.21	188	3 288	
94	9425	5	0.2	3.71	10	173	1.4	5	0.20	0.5	45	15	23	31	4.53	0.35	20	16	0.57	921	6	0.10	19	0.15	8 2	2 0.29) 141	1 169	·
95	9450	5		3.38	7	128	1.7		0.26	0.2	53	12	17	27	4.81	0.29	28	14	0.46	637	5	0.14	13	0.14	62	0 0.39) 109	9 139	
96	9475	. 5		3.57	16	219	1.9		0.27	0.8	63	13	20	35	4.89	0.43	28	17	0.57	841	9	0.10	25	0.11	2 2	4 0.21	143	3 244	
97	11400N-9500E	5		3.59	17	231	1.1		0.72	1.1	49	19	16	41	5.82	0.44	20	17	0.76	1028	7	0.06	. 23	0.11	9 2	9 0.31	206	5 231	
								_																	***				
98	11400N-9525E	5	0.2	4.12	22	223	1.6	5	0.32	1.0	58	21	21-	39	5.74	0.50	26	20	0.76	1290	. 9	0.08	25	0.16	3 2	7 0.24	184	1 259	
99	9550	5		3.25	12	170	1.0		0.98	1.1	48	32	11	42	6.30	0.33	18	17	1.14	1694	6	0.07	21	0.10	7 3	1 0.33	3 200) 211	
101	9575	5		4.18	9	173	1.5	-	0.48	0.6	56	28	19	39	6.69	0.38	26	19	1.12	1734	5	0.09	21	0.14	5 2	7 0.34	203	3 211	
102	9600	5	00000000000	4.35	7	189	2.0		0.46	0.5	63	22	18	35	6.26	0.35	31	18	0.83		5	0.11	19	0.15	6 2	7 0.34	177	7 196	
	11400N-9625E	5		4.12	6	302	1.1		0.54	1.1	43	26	13			0.48	20	18	1.08	1332	6	0.06	24	0.11	52	3 0.35	5 232	2 261	
					0.000																								
104	11400N-9650E	5	0.2	4.34	4	153	1.6	5	0.25	0.2	64	18	18	35	5.71	0.38	30	18	0.67	1147	5	0.12	19	0.16	122405	2 0.34			
105	9675	15	0.2	4.36	6	148	2.6	5.	0.23	0.2	69	15	19	26	5.70	0.29	34	18	0.42	1038	7	0.13	15	0.14	8 2	2 0.34	133	3 196	
106	9700	5	0.2	4.54	2	144	2.7	5	0.29	0.2	90	12	18	28	5.32	0.33	43	17	0.38	921	6	0.14	13	0.16	92	3 0.31	112	2 168	
107	9725	5	0.2	4.20	7	131	3.8	5	0.20	0.2	109	10	16	24	5.37	0.28	53	17	0.34	1013	5	0.16	11	0.14	9 1	9 0.30		5000000000000	
108	11400N-9750E	5	0.2	3.92	2	216	1.7	5	0.26	0.2	59	19	27	31	5.50	0.33	29	14	0.53	2066	5	0.08	15	0.21	0 2	8 0.28	3 152	2 156	
																									88 - I				
109	11400N-9775E	5	0.2	4.43	14	204	1.5	5	0.64	1.4	59	26	18	46	6.20	0.28	24	21	1.04	1583	10	0.05	36	0.11	23	3 0.35		2000000000000	
110	9800	5	0.2	4.21	11	148	1.6	5	0.71	1.0	60	26	13	37	6.29	0.35	23	23	1.00	1598	6	0.07	25	0.13	8 3	0 0.34	201	1 284	
111	9850	5	0.2	4.14	2	173	1.9	5	0.68	0.2	69	9	25	19	4.75	0.27	31	32	0.53	724	3	0.07	16	0.20	4 2	7 0.30) 133	3 199	
112	9875	- 5	0.2	3.59	16	109	1.1	5	0.86	3,3	45	20	16	49	4.84	0.21	19	18	0.85	1529	11	0.04	36	0.20	5 2	5 0.21			
113	11400N-9900E	5	0.2	4.48	11	110	1.3	5	0.76	1.6	62	25	20	40	5.39	0.24	22	19	0.85	1779	7	0.05	27	0.18	0 2	5 0.35	5 197	7 409	
			888 E -																										
114	11400N9925E	5	0.2	4.49	22	137	1.9	5	0.55	1.1	67	17	23	28	5.32	0.30	28	25	0.58	1050	6	0.07	21	0.21	3599	6 0.33		22020000000	
115	9950	5	0.2	4.37	31	149	1.8	5	0.79	1.1	67	17	21	32		0.29	28	23		1083	<pre>courses</pre>	0.08	23	0.18	2744	9 0.33			
116	11400N-9975E	5	0.2	2.55	5	126	1.2	5	0.27	2.2	38	16	24	22	5.80	0.27	18	9	0.37	1418	6	0.09	10	0.30	8 2	0 0.58		0.00000000000	
117	11600N-9400E	5	0.2	4.98	8	337	1.5	5	0.37	3.3	43	43	17	73	14.06	0.20	21	28	1.78	1519	15	0.04	42	0.20	2 1	8 0.34			
118	11600N9450E	5	0.4	3.90	9 🤅	198	0.9	. 5	0.96	1.1	47	28	8	53	6.98	0.36	18	22	1.35	1479		0.06	23	0.10	2 3	1 0.34	1 227	7 237	
					4																								
119	11600N-9500E	- 5	0.2	4.75	22	265	1.4	5	0.60	1.9	65	37	14	54	7.64	0.66	25	25		1964	12	0.05		0.19	20000	1 0.27			
120	9525	5	0.2	4.58	22	255	1.5	5	0.24	1.6	68	26	18	51	6.37	0.70	27	23		1334	15	0.05	42	000000	0002	2 0.21		- 8036666746	
121	9550	5	0.2	4.51	8	170	1.7	5	0.53	0.8	58	26	20	40	6.96	0.42	27	21	0.76	1851		0.08	22	0.19	22252	4 0.40		200000000000	
122	9575	5	0.2	3.89	10	199	1.2	5	1.27	1.7	59	34	12	48	7.67	0.48	23	25		1896	7	0.07		2000/2	2005	9 0.40		00000000000	
123	11600N-9600E	5	0.2	4.54	16	292	1.4	5	0.47	1.1	59	22	- 21	44	6.21	0.62	24		0.82	1296	12	0.05	33	0.12	8 3	1 0.22	2 244	4 364	
124	11600N-9625E	5	0.2	4.31	11 🖁	176	1.5	5	0.27	0.4	52	26	22	- 39	6.39	0.39	23		0.95			0.08		0.16		2 0.34			
125	9650	5	0.2	3.94	13	281	1.2	5	0.69	1.0	49	26	19	51	6.24	0.50	20	21		1543		Q.06	25	0.10	2000	3 0.26		0000000000	
126	9675	5	0.4	6.86	4	251	2.9	5	2.28	0,7	75	17	7	31	4.70	0.30	27	22		1247	0000000000	0.06	19	0.10	2868	0 0.22		00000000000	
127	9700	5	0.2	4.27	14		1.6		0.36	0.9	55	22	20	37		0.43	24	3 A				0.06		0.12	0000	5 0.2		222000000000000	
128	11600N-9725E	5	0.6	4.81	<u>15</u>	232	2.4	5	0.36	1.5	93	16	24	60	7.29	0.55	39	36	0.56	1116	20	0.07	37	0.18	6 2	9 0.2	3 210	5 317	

T.T.	SAMPLE	Au Ag	AI	As	Ba	Bc	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	к	La	Li	Mg	Mu	Мо	Na	Ni	P	Pb	Sr	Ti	v	Zn 9	108-015
No.	No.	ppbppm_	%		ррт	ppm	ppm	%	ррт	ppm	ppm	ррт		%	%		<u>ppm</u>		ppm		%	ррт	%			%			g. 4 of 5
129	11600N-9750E	5 0.2			212	1.8	. 5	0.26	1.6	54	17	9	90000000000	13.08	0.50	23	20	0.17	895		0.02	14	0.17	48	44	0.05	298	295	
130	9775	5 0.4	5.88	902	504	1.3	5	0.32	0.2	56	34	10	510053535353	12.46	0.57	23		0.39	850	9		19	0.24	42	58	0.17	336	283	
131	9800	5 0.2		116	220	2.0	5	0.45	0.5	84	32	21		8.92	0.36	27	ana ago 1114	0.68	1447		0.04	26	0.13	2	30	0.26	228	259	
132	9825	5 0.2	4.69	45	167	1.8		0.53	0.3	` 69	28	18	1000007744		0.27	23		0.73	1368		0.05	21	0.13	2	,23	0.30	210	262	
133	11600N-9850E	5 0.2	5.84	48	186	1.7	- 5	0.12	0.3	44	25	23	43	8.87	0.28	22	20	0.50	1509	1	0.03	17	0.20	3	22	0.23	270	208	
1	11/001 00755															.						40							
134	11600N-9875E	5 0.2		20	113	1.9		0.17	0.2	57	19	17	29	6.77	0.16	30	11	0.40		1	0.09	10	0.24	2		0.48	164	106	
135	9900	5 0.2	4.67	24	199	1.8		0.25	0.8	69	28	22	38	6.80	0.36	24	21	0.88	1410		0.05	26	0.13	5	23	0.34	214	275	
136	9925	5 0.2		31	176	1.9	5	0.30	0.4	80	24	19	10.000	6.47	0.34	29	20	0.81	1307		0.06	19	0.14	2	23	0.34	206	218	
137	9950 11600N-9975E	5 0,2		3	176	2.4		0.27	0.2	77	8 26	20 22	23		0.26	38 23		0.34	628		0.13	10	0.19	ļ	20	0.30 0.33	97	145	
1.30	1100014-39735	5 0.2	4.08	20	272	1.3	2	0.97	1.1	58	20	22	42	6.40	0.44		21	0.97	1329	•	0.06	24	0.11	0	34	0.55	206	217	
139	11800N-9400E	5 0.8	5.08	38	456	10	5	0.09	4.3	38	15	9	75	5.12	1.24	10 8	16	0.68	549		0.04	74	0.10	12	22	0.16	362	861	
140	9450	5 0.2	3.98	- 30 12	100 C	1.0 3.7		0.09	0.9	.30 134	15 8	13	20.000.002		0.32	18 55		0.08	906	04 9		17	0.10	12	10		- 502 ; 66 :	243	
140	9475	5 0.2		20	146 251	1.7	5	0.11	1.8	53	8 16	15	42 42		0.32	25			1492		0.19	43	0.14	20		0.16	197 :	547	
141	9500	5 0.2	4.63	16	210	1.7	-		1.0	53	28	18	42		0.75	23	Service of the servic	0.01			0.05	39	0.14	13		0.10	197	431	
142	11800N-9525E	5 0.2		19	226	1.9		0.22	1.2 1.6	55	28	15	40	6.05	0.52	23		•	1367		0.05	36	0.13	13		0.25	219	417	· .
145	110001(-)5255		4.45	19	- 440	1.9	2	0.29	1.0	35	45	15	HU	0.05	0.54	ω 	10	0.74	1507		0.00	50	0.12		49	0.25	215		
144	11800N-9550E	5 0.2	5.25	13	282	1.7	5	0.32	0.9	58	22	17	37	5.73	0.54	27	21	0.60	1456	9	0.07	29	0.17	12	55	0.24	186	333	
145	9575	5 0.2	4.98	4	242	2.0		0.65	0.6	59	32	16	39	6.29	0.30	24	20	0.87	1368	8	0.09	29	0.13	7	54	0.36	210	254	
146	9600	5 0.2		8	178	2.1	5	0.27	0.5	62	22	17	27	5.65	0.27	28	900 T.C.O	0.49	1395	5	0.08	15	0.22	5		0.35	137	192	
147	9625	5 0.2	4.40	7	169	1.8	-	0.49	0.7	60	33	19	35	6.45	0.28	24			1480	22222222		25	0.17	6		0.42	196	223	
148	11800N-9650E	5 0.2	4.02	36	186	1.3		1.11	0.9	60	42	13	40	7.25	0.19	20	18		1560	6	0.05	24	0.13	3		0.53	254	200	
152	11800N-9675E	5 0.2	4.01	29	179	1.5	5	0.78	0.6	68	43	17	41	6.54	0.30	22 🖉	19	0.71	2126	5	0.05	21	0.20	2	33	0.39	222	204	
153	9700	5 0.2	3.90	18	170	1.6	5	0.23	0.3	50	22	23	33	6.21	0.23	26	18	0.58	1977	5	0.06	15	0.21	3		0.37	199	178	
154	9725	5 0.2	4.43	14	155	1.5	5	0.69	1.2	58	20	18	39	5.29	0.30	25			1334		0.08	28	0.19	8		0.35	188	326	
155	9750	5 0.2	4.94	175	179	1.6		0.32	0.8	57	38	21	41		0.28	23	000000000		2391		0.04	23	0.17	6		0.26	233	265	
156	11800N-9775E	5 0.2	4.65	17	176	1.9	5	0.19	0.8	60	29	25	33	6.63	0.20	30	19	0.65	2212	5	0.06	14	0.19	6	20	0.43	200	225	
	4400001 00000						-			<i>.</i>						~ ~ 8													
	11800N-9800E	5 0.2	4.14	21	166	1.8		0.18	0.3	54	15	28	31		0.36	26		0.55			0.06		0.13	5		0.20	144	190	
158	9825	5 0.2	3.87	7	167	2.1		0.25	0.2	67	11	27	25	5.44	0.29	32			1088	0000000000000		12	0.17	2		0.25	134	143	
159	9850 9875		4.10 3.75	18 9	226 125	1.6	5	0.64	1.1	59	14	26 21	33		0.52	29	000000000	0.61 0.39	1049 874	000000000000	0.04	18	0.10	2 2		0.19	165 122	236	
160	11800N-9900E	5 0.2 5 0.2	3.73 4.20	2	123	2.0 4.4		0.18 0.13	0,2 0,2	58 132	12 5	16	20 18		0.22 0.17	28 62	80050505	0.39	544		0.07 0.14	12 8	0.14 0.12	5		0.27 0.22	62	151 145	
161	11000IN-9900E	J 0.2	4.20	2	105	4.4	2	0.15	0.2	154	2	, 10	10	5.50	0.17	02 🛞	16	0.21	344	U	0.14	. 0	0.12	4	15	0.22	02 3	.143	
162	11800N-9925E	5 0.2	5.04	11	165	2.1	5	0.69	1.0	57	16	21	33	6.07	0.29	28	26	0.62	808	8	0.05	25	0.14	2	34	0.25	179	269	
163	9950	5 0.2	4.85	17	174	1.5		0.50	0.6	39	17	21	33		0.37	19		0.83	989	000000000000		24	0.15	2	40	0.31	215	365	
164	11800N-9975E	682633366	4.57	28	149	1.7		0.16	0.4	45	17	21	31		0.33	21			1124			20	0.11	5		0.26	191	232	
165	12000N-9400E	256556555	4.47	6	226	1.7		0.09	0.4	56	15.	19	29		0.68	27	and the second		1585			17	0.15	27		0.16	145	278	
166	12000N-9425E	A	4.50	5	211	1.5		0.10	0.2	50	11	34	25		0.70	26		0.46	1223	9000000000 N	0.07		0.18	11		0.17	128	182	
1																													
167	12000N-9450E	5 0.2	4.52	4	276	1.9	5	0.28	0.8	72	12	23	28	4.00	0.84	35 🖉	22	0.51	934	6	0.04	18	0.10	10	45	0.11	137	224	
168	9475	5 0.2	3.82	2	116	1.8	5	0.19	0.2	65	10	19	- 24	4.74	0.28	31 🖉	15	0.40	632	5	0.12	10	0.15	2	21	0.36	99	118	
169	9500	5 0.2	3.71	8	146	1.2	5	0.13	0.2	52	16	25	30	4.72	0.50	23	18	0.50	996	5	0.06	19	0.14	4	23	0.20	132	194	
170	9525	5 0.2	4.00	7	175	1.3	5	0.18	0.3	59	14	27	31	4.86	0.44	26 🖉	19	0.50	831	6	0.07	17	0.18	4	25	0.25	139 🖁	164	
171	12000N-9550E	5 0.2	3.94	6	139	1.6	5	0.15	0.2	67	8	22	28	4.36	0.36	33	17	0.37	490	5	0.10	11	0.18	9	21	0.27	107	123	1
	12000N-9575E	5 0.2	4.13	13	182	1.3		0.59	1.0	52	27	16	45		0.37	23	1990000000		1670	000000000000			0.14	10		0.30	193	259	
173	9600	- 2002/20000	3.80	9	167	1.8	-	0.20	0,3	70	11	20	30		0.40	33	900-900-900-9	0.46	661		0.11	18	0.15	12		0.23	111	186	
174	9625		3.62	2	135	1.4		0.18	0.3	58	11	22	28		0.40	28		0.46	851		0.10	16	0.14	11		0.28	117	175	
175	9650	- 000000 0000	3.50	7	111	2.0		0.15	0.2	64	9	16	23		0.23	30		0.30	524		0.10		0.14	8		0.33	87	.96	1
176	12000N-9675E	5 0.2	3.81	14	176	1.7	5	0.18	0.4	55	16	22	- 30	5.36	0.37	25	≈ 17	0.51	1082		0.09	16	0.16	10	20	0.29	135	187	j

T.T.	SAMPLE	Au Ag	AI	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Мо	Na	Ni	P	Pb	Sr	Ti	V	Zn 9108-015
No.	No.	ppb ppm	%	ppm	ppm	ppm	ppm	%	ррт	ppm	ppm	ppm	ppm	%	%	ррт	ррт	%	ppm	ррт	%	ppm	%	pm	ppm	%	ppm	ppm Pg. 5 of 5
177	12000N-9700E	5 0.2	3.77	17	219	1.1	5		13	56	29		41		0.39	21	19	0.87	1415	8	0.05	25	0.11	9	22	0.23	185	251
178	9725	5 0.2	3.78	19	187	1.1	5	0.32	0.8	50	23	23	40	5.98	0.39	21	17	.0.75	1205	7	0.05	23	0.12 🛞	5	24	0.23	174	227
179	9750	5 0.2	3.84	36	172	1.3	- 5	0.39	0.7	59	32	20	40	6.05	0.38	24	19	1.05	1797	6	0.08	24	0.11 🐰	6	26	0.25	154	207
180	9775	5 0.2	3.50	26	155	1.7	5	0.22	0.6	` 58	14	22	- 30	4.67	0.34	27	18	0.55	862	6	0.07	19	0.12 🐰	6	,21	0.21	127	202
181	12000N-9800E	5 0.2	3.69	29	165	1.7	5	0.28	0.7	49	15	19	33	5.00	0.33	24	18	0.58	945	7	0.07	20	0.14 🖉	6	25	0.23	144	237
			•																									
182	12000N-9875E	5 0.2	4.00	28	183	1.3	5	0.19	0.2	48	18	22	40	5.04	0.49	22	17	0.67	1111	7	0.07	24	0.14	7	29	0.25	158	233
183	9900	5 0.2	3.94	19	209	1.1	5	0.28	0.5	49	8	23	31	3.06	0.44	23	19	0.55	287	7	0.06	16	0.08	8	27	0.21	145	166
184	9925	5 0.4	3.78	7	89	1.8	5	0.14	0.2	64	5	17	- 17	3.99	0.18	31	11	0.21	189	5	0.09	8	0.18 🐰	7	13	0.36	89	86
185	9950	5 0.2	3.71	17	177	1.4	5	0.15	0,2	61	11	24	- 24	4.35	0.42	23	17	0.47	847	5	0.06	17	0.13	8	22	0.24	118	157
186	12000N-9975E	5 0.2	3.58	20	215	1.5	5	0.38	0,5	54	10	24	29	4.61	0.44	26	19	0.53	541	5	0.06	18	0.12	11	27	0.26	136	198

NORANDA VANCOUVER LABORATORY

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Geochemical Analysis

																	-		•							1100	051	
	Project	i Name	82 NG).:	BALL	. CK	- 289				Geol.	: M.S.					Date	receiv	ed:	SEP.	10		LVR	CODE	<u> </u>	9109-	-051	
	Materia	ai:			155 SC	OILS					Sheet	: 1 of	4				Date	compl	cted:	SEP. 2	24				· ·	. ,	1. L	·
	Remark	KS: .	٠	Sampi	a scree	ned @	-35 MI	ESH (O	.5 mm	;								-						Ć	ion	1 1	μ_{L}	Í.
			п	Organ	ic, 🗛 H	íumus,	S Sulli	de					Au ~ 10	.0 g sai	nple dige	sted w	th aqua	-regia	and det	ermine	đ by A.	Л. (D.L	. 5 PPB)		1		12 0
	ICP - 0.2	g sampi	e diges	ted with	i3 m i H	.CIO4/H	INO3 (4	:1) at 20	03 °C fo	or 4 hou	rs dilut	eđ to 11	ml with	water.	Leeman	PS3000	ICP de	termine	ed elem	ental co	ntents.				i la	2	SG	- Bal
	N.B. The	major o	cide ele	em entre a	and Ba,	Be, Ce,	La, Li, (Эл аге '	rarely d	lissolve	d compl	etely fro	om geold	gical m	aterials	with thi	s acid di	issoluti	on meth	ođ.				2	0.1			
					······								·														···· <u></u>	·
SAMPLE	S Au	∣ Ag	A	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn	Мо	Na	Ni	P	Pb	Sr	Ŧī	V	Zu
No	. ppt	ppm	%	ppm	ppm	DDM	ррт	%	DDM	DDM	nom	թթա	ppm	%	%	nnm	ppm	%	ppm	DDB	%	ppm	%	DDE	ppm	% 1	ppm p	рш

T.T	. SAMPLE	Au Ag	Âİ	As	Ba	Be	Bi	Ca	Čď	Ce	Co	Cr	Ōı	Fe	ĸ	Ĺa	Li	Mg	Mn	Мо	Na	Ni	P	Pb	Sr	Ti	v	Zn
No.	No.	ppb ppm	%	ррш	ppm	ррш	թթա	%	ppm	ppm	ppm	ppm	ррш	%	%	ppm	ppm	%	ррт	ррш	%	ppm	% j	ppm p	pm	%	ррт	ррш
2	21800N-11050E	5 0.6	3.65	5	325	2.3	5	0.69	0.2	66	20	27	33	5.78	0.14	26	12	0.76	1525	3	0.08	16	0.20 🛞	7	47	0.46	148	161
3	11075	5 0.4	3.53	2	416	1.6	5	0.87	0.2	60	22	41	42	6.46	0.24	23	14	1.28	1193	3	0.05	30	0.09	10	68	0.46	207	208
4	11100	5 0,4	3.45	5	382	1.6	5	0.98	0.5	62	26	43	50	6.35	0.28	26	15	1.34	1465	2	0,06	32	0.10 🛞	11	76	0.44	187 🕻	221
5	11125	5 0.4	3.14	5	228	1.6	5	1.08	0.5	62	24	38	39	6.24	0.23	26	14	1.20	1355	2	0.06	25	0.09 🖉	10	75	0.47	193	185
6	21800N-11150E	5 0.2	3.24	7	227	1.7	. 5	1.04	0.5	63	23	35	38	6.16	0.25	26	15	1.14	1322	2	0.07	25	0.10	9	74	0.48	192	190
-	210001 111755	- 82				·	-			ná	~ ~	-							1000		~	-				0.50	107	444
12	21800N-11175E	5 0.4		3	279	2.4		0.66	0.3	82	25	30	40	6.68	0.28	33		1.13			0.13		0.22	9		0.50	185	173
8	11200	5 0.2		4	220	2.5	5	0.53	0.2	78	20	23	31	5.88	0.21	35		0.86			0.14		0.18	8		0.41	143	133
	11225	5 0.4		9	477	1.7	5	1.38	0.6	68	28	28	43	6.48	0.21	26		1.34		· · · · · · · · · · · · · · · · · · ·	0.06		0.11	9		0.42	208	206 178
10	11250	30 0.2			635	1.7	5	1.11	0.4	64	28	37	George States	6.57	0.23	25		1.35			0.05		0.08	10		0.43 0.42	207 117	103
11	21800N-11275E	5 0,2	2.24	0	158	1.4	5	0.45	0.2	40	19	23	28	4.78	0.14	18	7	0.52	10/1	3	0.10	. 11.	0.26		32	0.42		105
12	21800N-11300E	5 0.2	3.06	7	351	1.4	5	0.81	0.2	55	24	30	40	4.68	0.18	22	11	0.92	2341	2	0.06	19	0.20	9	43	0.26	141	144
13	11325	5 0.4	3.83	9	248	1.7		1.19	0.6	64	30	30	51	6.59	0.23	26		1.52			0.07		0.11	9	92	0.44	219	201
14	11350	5 0.4		n	259	1.7	5	1.09	0.8	66	27	32			0.26	26		1.39			0.07		0.10	8		0.39	190	173
15	11375	5 0.4	3.36	12	280	1.7		0.94	0.6	66	26	33		5.97	0.28	28	14	1.30			0.07		0.11	7		0.41	180	169
16	21800N-11400E	5 0.2	2.81	9	185	1.4		0.92	0.5	56	26	19		6.33	0.16	22		1.46		00000000000	0.10		0.11	4		0.51	197	145
17	21800N~11425E	5 0,4	3.26	6	276	1.4	5	0.65	0.3	55	25	42	- 34	5.89	0.24	19	13	1.16	1591	2	0.06	28	0.18	8	46	0.40	186	133
18	11450	5 0.4	4.09	9	523	2.1	6	0.65	0.4	78	25	32	40	6.06	0.30	28	17	1.27	2155	2	0.07	28	0.16	13	40	0.35	182	150
19	11475	5 0,4	2.45	3	173	1.5	5	0.44	0.6	41	17	23	22	4.73	0.19	15	8	0.58	1721	2	0.10	14	0.27	6	28	0.37	127	123
20	11500	5 0.2	3.46	8	264	1.8	5	0.85	0.5	67	22	39	32	5.67	0.31	25	13	1.24	1385	1	0.06	28	0.13	9	48	0.47	192	125
21	21800N-11525E	5 0.2	3.19	17	242	2.0	5	1.21	0.5	74	26	45	43	6.30	0.25	37	18	1.33	1468	3	0.06	27	0.12	9	65	0.51	203	135
222	31000N 11550F	- 2000		~			-			-												~ .			10		477	
22	21800N-11550E	5 0.4	3.54	9	250	2.0		0.73	0.2	72	21	37		5.73	0.21	30		0.96			0.07		0.17	9		0.43	173	120
23	11575	5 0.4	2.98	16	218	1.4		1.70	0.5	60	25	31		6.49	0.17	26		1.59		00000000000	0.06		0.11	8		0.51	205	149
24	11600 •	5 0,6	2.92	13	175	1.2		1.41	0,3	53	31	15		6.92	0.09	22		2.11			0.07		0.12	6		0.49	211	135
25	11625	5 0.4	3.46	10	258	1.6		1.12	0.2	66	23	33		6.56	0.22	29		1.39			0.06		0.14	9		0.51	204	131
26	21800N-11650E	5 0.6	3.46	7	314	1.6	С	1.08	0.2	72	27	22	37	7.10	0.22	31	18	1.73	1837	3	0.07	17	0.15	15	54	0.42	224	149
27	21800N-11675E	5 0.4	2.80	13	279	1.4	5	1.37	0.2	61	24	33	31	6.47	0.22	24	12	1.36	1546	3	0.06	20	0.12	7	80	0.52	200	133
28	11700	5 0.4	3.11	. 9	233	1.4		1.32	0.2	63	24	35		6.52	0.24	26		1.17		000000000	0.06		0.10	8		0.51	209	139
29	21800N-11725E	5 0.4	2.89	6	279	1.6		0.65	0.2	57	22	33		5.19	0.21	21		0.79			0.07		0.19	9		0.34	135	117
30	22000N-11175E	5 0.4	3.51	6	287	1.7		0.92	0.4	65	27	39		6.65	0.22	26	15	1.62			0.08		0.13	17		0.49	198	200
31	22000N-11200E	5 0.2	2.77	5	225	1.4	-	0.89	0.3	58	22	35	39	5.66	0.20	24	·····	1.32			0.07		0.09	7		0.43	164	145
1.				-		1.1.1		2.05	***			55		2.00	0.20	-		*****				M -3						
32	22000N-11225E	5 0.4	3.21	6	319	1.6	5	0.86	0.4	63	23	37	41	5.90	0.26	28	14	1.36	1459	2	0.07	28	0.10	8	48	0.43	167	155
33	11250	5 0.4	2.89	7	218	1.5	-	0.90	0.6	59	23	37		5.76	0.22	24	13	1.49		200000000000	0.07		0.09	7		0.43	165	162
34	11275	5 0.6	3.96	6	329	2.0	5	0.65	0.4	73	-25	31		6.10	0.29	31		1.33		0000070	0.09		0.14	10		0.40	161	188
35	11300	5 0.4	3.29	10	272	1.5	5	0.89	0.4	62	24	51	53	5.86	0.32	27			1239		0.07		0.11	7		0.42	170	154
36	22000N-11325E *	5 0.4		8	0000000000	1.1	5	0.94	0.4	52	24	14		5.73	0.13	20		1.54			0.10		0.11	5		0.47	201	152
15.1	41 . 24																							<u></u>				

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No.					Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	n.	La Li	Mg	Ma	Мо	Na	Ni	P	Pb	Sr	Ti	v	Zn 9106	3-051
	No.	ррб ррм	%		ppm	ppm			ppm	ppm	ррт	ppm	%	%	ppm ppm	~%	ррш	ppm	<u>%</u>	ppm	%	ppm	ppm			ppm Pg. :	2 of 4
	22000N~11350E	5 0.2		12 204	1.4		1.08	0.4	58	27	37		6.27	0.21	24 13		1366		0.07		0.10	8	69	0.47	199 g	179	1
38	11375	5 0.2		9 207	1.4		0.85	0.4	56	23	43		5.67	0.26	24 13	1.38	1211		0.06	28	0.09	9		0.40	169	165	1
39	11400	5 0.4		6 254	1.5	-	0.88	0,5	61	25	46		5.71	0.29	26 14	1.43	1406	100000000000	0.07		0.09	13	62	0.36	160]	164	1
40	11425 •	5 0.4		11 162	1.4		0.85	0.6	59	30	30 (138	6.59	0.19	21 14			2	0.07	23	0.12	6	48	0.43	196	209	
41 2	22000N-11450E	5 0.2	3.10	13 212	1.8	5	0.96	0.3	66	26	53 🖉	65	5.91	0.26	32 17	1.40	1224	2	0.06	33	0.09	9	71	0.40	172	166	
1		_ 0.000									200															- 18	
	22000N-11475E	5 0.2		6 219	2.1		1.12 🛞	0.2	73	28	40 §		5.96	0.30	31 19	1.18	1364		0.07	30	0.09	10	90	0.37		151	
43	11500	5 0.2	3.26	3 191	2.0	-	0.78	0.2	74	25	35	00000000000	5.83	0.23	29 15	1.20	1668		0.10		0.13	8	57	0.40		146	
44	11525	5 0.2		6 187	1.6		0.81	0.2	60	22	37 🔮		5.67	0.25	26 14	1.30	1144		0.06			6		0.38	161	140	
45	11550	5 0.2	3.49	2 230	1.7		0.72	0.2	62	21	44 🔮		5.83	0.24	25 15		1180		0.07		0.10	6	59	0.42	166	131	
46 2	22000N-11575E	5 0.4	3.42	3 306	1.4	5	0.77	0,2	58	22	46	37	5.76	0.27	21 15	1.34	1323	2	0.06	31	0.10	8	64	0.40	167	154	
، جد							8	. 1888	÷.,		8																
	22000N-11600E	5 0.2		2 270	1.7	-	1.10	0.2	70	24	35		6.41	0.24		1.31			0.07		0.14	8	78	0.47	204	140	
48	11625	5 0,2		11 348	1.7	-	0.92	0.2	67	24	50		6.47	0.30	29 15				0.07	-	0.12	8		0.50	198	130	
49	11650 *¤	5 0,2		4 269	0.8	-	0.79	0.3	38	15	19	0000000000	3.40	0.17	13 6		1654		0.05		0.23	4	48	0.24	97	104	
51	11675	5 0.6	3.67	5 359	1.7		0.65	0.2	65	20	29		5.97	0.24		1.13			0.08		0.14	7	48	0.45	162	133	
52 2	22000N-11725E	5 0.4	3:19	10 443	1.4	5	1.33	0.2	59	21	33	40	6.04	0.23	23 12	1.34	1488	2	0.06	24	0.11	7	105	0.51	189	115	
52	22000N11750E		3			-			~		~ ⁸		<i>.</i>	0.27		1.00			0.04	~~	0.44			0.55		144	1
53 2 54	11775	5 0.6		8 525	1.5	-	0.99	0.2	63	20	32		6.21	0.25	27 13		1448	- CAMPONIA - 1000	0.06		0.13	1	51	0.55	175	128	
	22000N-11800E	5 0.4		3 277	1.8	-	0.62	0.2	57	18	26		5.26	0.21		0.84			0.11	20	0.19		39	0.45	118	112	
	22200N-11150E	5 0.4		8 344	1.6		1.02	0.2	66	19	25		4.94	0.18	26 10	:	1760		0.07		0.26	10	45	0.33	115	111	
	22200N-11175E	5 0.2 5 0.4		8 154 6 375	1.3 2.4		0.77	0.3	51 70	22	28 24		5.63	0.16	23 12 32 15	:	1058	10000000000	0.08			22	39 32	0.45	163 154	159	ł
, , , , , , , , , , , , , , , , , , ,	2220014-1117515	J 0,4	4.05	0 3/3	2.4	3	0.48	0.2	10	21	- 24 (33	6.16	0.24	32 12	1.11	1520		0.09	43	0.22	19	. 36	0.45	1.54	150	
58	22200N-11200E	5 0.4	3.65	9 262	1.8	5	0.58	0.2	65	20	38	33	5.56	0.24	26 15	1.45	1124		0.09	22	0.11	10	40	0.43	150	127	
59	11225	5 0.2	2.85	9 180	1.4		0.79	0.3	54	20	31		5.28	0.24	6500506006	1.45		1000000000000	0.07		0.09	10		0.43	152	123	
60	11250	5 0.2	2.79	10 213	1.5	-	0.79	0.2	58	18	39		5.44	0.24	200002020	1.22			0.07		0.10			0.43	154	125	1
61	11275	5 0.2	2.46	11 195	1.8		0.81	0.5	65	21	49		5.39	0.24	0.0838378-0.0	1.09	992		0.06		0.09	11		0.42	160	128	1
-	22200N-11300E	5 0.2	2.61	10 239	1.7		0.84	03	65	21	44		5.66	0.25	1000000.com	1.09		2222 C	0.06		0.10	7		0.45	171	134	
					2.17	5	···· 🛞		0.5	~1			5.00			1.07	1050		0.00	20			20	0.15			
63 2	22200N-11325E	5 0.2	2.87	8 299	1.9	5	0.89 🖉	0.2	71	20	47	33	6.01	0.26	34 15	1.09	1088	2	0.06	24	0.10	8	58	0.48	178	144	· .
64	11350	5 0.2	2.86	7 258	1.7	-	1.00	0.2	71	20	49	33		0.25		1.17			0.06		0.10	7	-	0.49	182	143	
65	11375	5 0.2	2.98	10 223	1.6		1.10	0.3	65	23	41	35		0.25	4444046668	1.33		516666677-0	0.07		0.10	8		0.51	199	150	. 1
66	11400	5 0.4	3.09	10 308	1.7	5	0.93 🛞	0.4	69	22	34	38	5.89	0.28	5566039200	1.21			0.08	26	0.11	9	60	0.46	172	144	
67 2	22200N-11425E	5 0.2	3.15	7 259	1.6	5	1.04 🏼	0.2	63	22	44 🕺	37	6.05	0.24	27 14	1.43	1228	2	0.07	25	0.10	9	65	0.49	192	151	1
																									200		·
	22200N-11450E	5 0.2	3.17	9 341	1.5	5	0.99 💹	0.2	62	26	45 🖉	38	6.02	0.27	25 14	1.39	1410	2	0.06	28	0.10	8	64	0.44	189 🖁	148	
69	11475	5 0.2	3.29	9 298	1.7		1.14 💹	0.2	65	27	- 34 🏽	41	6.54	0.23	26 15	1.54	1620	2	0.07		0.10	9	66	0.50	213	154	
70	11500	5 0,4	3.00	8 262	1.5	5	1.06 🛞	0.2	62	21	44 🖉	34	5.76	0.25	26 14	1.25	1222	1	0.07	25	0.10	8	71	0.43	180	137	1
71	11525	5 0.2	3.21	4 236	1.6	5	1.05 🥘	0.2	63	20	45 🖉	35	6.35	0.27	28 14	1.18	1184	1	0.07	25	0.10	8	76	0.52	199 ³	139	
72 2	22200N-11550E	5 0.2	2.95	7 239	1.5	5	1.05 🎡	0.2	62	20	44 🕺	34	6.03	0.28	27 14	1.09	1146	1	0.06	24	0.10	8	72	0.47	184	127	
	· · · · · · · · · · · · · · · · · · ·	_ 3333									2																1
	22200N-11575E	5 0.2	2.77	2 217	1.5	5	1.11 🎆	0.2	61	19	43 🖁	33		0.25	26 13	1.07	1192	1	0.06	23	0.10	8	71	0.50	197	127	1
74	11600	5 0.2	2.70	5 200	1.5			0.2	59	18	44 🖉	32		0.25	26 13	1.08	1034	1	0.06	25	0.09	8	- 73	0.49	194	122	
75	11625	5 0.2	2.74	4 225	1.5	5	1.01 💹	0.2	59	20	42 🖉	33	5.85	0.26	25 13	1.07	1125	1	0.06	25	0.09	8	68	0.44	180	121	
76	11650	5 0.2	2.59	5 211	1.5		1.10 🐰	0.2	60	19	40 🖉	30	5.85	0.24	25 13	1.01	1196	1	0.06	21	0.08	8	69	0.46	190	120	ļ
77 2	22200N-11675E	5 0,2	2.52	6 180	1.4	5	1.12 🛞	0.2	58	19	41 🖗	31	5.73	0.22	24 12	0.99	1101	1	0.05	20	80.0	7	74	0.46	189	115	
											8														4		
	22200N-11700E	5 0.2	2.77	8 215	1.5			0.2	62	20	40 🥈	35	5.95	0.25	25 13	1.05	1149	I.	0.06	22	0.09	8	76	0.45	191	121	
79	11725	5 0.2	2.67	7 182	1.5		1.23	0.2	65	20	45 🖉	- 34	5.85	0.24	25 13	1.00	1188	2	0.06	20	0.09	9	76	0.43	184	119	
80	11750	5 0.2	2.29	6 166	1.2		1.07	0.2	56	18	44 🖉	619636669	5.31	0.21	23 11	0.96	1005	100000000000	0.05	20	0.09	9	66	0.39		104	
81	11775	5 0.2	2.69	16 222	1.7		1.03	0.2	69	22	55 🖉	66.060 States	5.42	0.26	000000000000000000000000000000000000000			ione contra de la	0.06		0.10	10		0.39	167	123	
<u>82 2</u>	22200N-11800E	5 0.2	2.73	14 219	1.6	5	<u>1.12 </u>	0.2	64	25	<u> </u>	48	5.86	0.22	28 14	1.17	1363	4	0.06	25	0.10	11	70	0.42	186	139]

14 15 6 2224 7 2240 8 2240 9 0 1 2 2240 3 2240 3 2240 5 6	SAMPLE No. 200N-11825E 11850 11875 200N-11900E 00N-1100E 11125 11150 11175 00N-11200E 00N-11225E 11300 11325 11425	Au Ag ppb ppm 5 0.2	293 2.65 2.52 3.51 3.17 2.74 3.37 3.81 3.19 3.03	15 11 11 65 9 7 7 7 6 7	Ba 260 202 217 305 332 307 296 349 424 339	Be ppm 1.4 1.3 1.3 1.3 1.7 1.6 1.5 2.0 1.9 2.1	5 5 5 5 5 5 5 5 5 5 5 5	Ca Cd % ppm 1.30 0.2 1.06 0.2 1.34 3.2 1.06 0.2 0.63 0.2 0.57 0.2 0.46 0.2 0.55 0.2	59 53 57 55 63 63 62	Co ppm 24 23 26 27 24 21 18	Cr Cu <u>ppm ppm</u> 37 53 30 47 27 44 23 36 42 61 49 50	6.19 6.46 6.98 5.90		La ppm 24 23 23 23 23 26	14 12 13 11	% 1.30 1.23 1.23	1391 1592 1920	3 3 3 3	Na % 0.05 0.05 0.05 0.05 0.05 0.06	20 19 14	P % 0.09 0.09 0.09 0.09 0.10	Pb ppm 11 9 8 10 14	Sr ppm 83 68 62 43 43	Ti % 0.42 0.44 0.48 0.56 0.38	V 207 228 240 311 156	Zn 9109-09 ppm Pg. 3 of 143 134 535 132 255
14 15 6 2224 7 2240 8 2240 9 0 1 2 2240 3 2240 3 2240 5 6	11850 11875 200N-11900E 100N-11075E 11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.2 5 0.2 5 0.4 5 0.2	2.93 2.65 2.52 3.51 3.17 2.74 3.37 3.81 3.19 3.03	15 11 11 65 9 7 7 7 6 7 7 2	260 202 217 305 332 307 296 349 424	1.4 1.3 1.3 1.3 1.7 1.6 1.5 2.0 1.9	5 5 5 5 5 5 5 5 5 5 5 5	1.30 0.2 1.06 0.2 1.34 3.2 1.06 0.2 0.63 0.2 0.57 0.2 0.46 0.2 0.55 0.2	59 53 57 55 63 63 62	24 23 26 27 24 21	37 53 30 47 27 44 23 36 42 61 49 50	6.40 6.19 6.46 6.98 5.90	0.20 0.19 0.20 0.15	24 23 23 23 23	14 12 13 11	1.30 1.23 1.23 1.19	1425 1391 1592 1920	3 3 3 3	0.05 0.05 0.05 0.05	24 20 19 14	0.09 0.09 0.09 0.09	11 9 8 10	83 68 62 43	0.42 0.44 0.48 0.56	207 228 240 311	143 134 535 132
15 2224 7 2240 8 2244 9 0 1 1 2 2244 3 2244 3 2244 5 6	11875 200N-11900E 100N-11075E 200N-11100E 11125 11150 11175 200N-11200E 200N-11225E 11300 11325	5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	2.52 2.32 3.51 3.17 2.74 3.37 3.81 3.19 3.03	11 65 9 7 7 6 7 2	217 305 332 307 296 349 424	1.3 1.3 1.7 1.6 1.5 2.0 1.9	5 5 5 5 5 5 5 5 5	1.34 3.2 1.06 0.2 0.63 0.2 0.57 0.2 0.46 0.2 0.55 0.2	57 55 63 	26 27 24 21	30 47 27 44 23 36 42 61 49 50	6.19 6.46 6.98 5.90	0.19 0.20 0.15	23 23 23	12 13 11	1.23 1.23 1.19	1391 1592 1920	3 3 3	0.05 0.05 0.05	20 19 14	0.09 0.09	8 10	62 43	0.48 0.56	240 311	535 132
6 222(7 224(9 224(9 224(9 224(9 224(1 2224(3 224(4 5 6	200N-11900E 100N-11075E 11125 11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.4 5 0.2 5 0.2 5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	2.32 3.51 3.17 2.74 3.37 3.81 3.19 3.03	65 9 7 7 6 7 2	305 332 307 296 349 424	1.3 1.7 1.6 1.5 2.0 1.9	5 5 5 5 5 5	1.06 0.2 0.63 0.2 0.57 0.2 0.46 0.2 0.55 0.2	55 63 63 62	27 24 21	23 36 42 61 49 50	6.98 5.90	0.15	23	11	1.19	1920	3	0.05	. 14	0.09	10	43	0.56	311	132
7 2240 8 2240 9 0 1 2 2240 3 2240 4 5 6	000N-11075E 00N-11100E 11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.2 5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	3.51 3.17 2.74 3.37 3.81 3.19 3.03	9 7 7 6 7 2	332 307 296 349 424	1.7 1.6 1.5 2.0 1.9	5 5 5 5 5	0.63 0.2 0.57 0.2 0.46 0.2 0.55 0.2	63 - 63 62	24 21	42 61 49 50	5.90										50 S.C. S.C.	_			
8 224(9 0 1 2 224(3 224(4 5 6	00N-11100E 11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	3.17 2.74 3.37 3.81 3.19 3.03	7 7 6 7 2	307 296 349 424	1.6 1.5 2.0 1.9	5 5 5 5	0.57 0.2 0.46 0.2 0.55 0.2	63 62	21	49 50		0.28	26	15	1.52	1349	1	0.06	31	0.10	14	43	0.38	156	255
9 0 1 2 2240 3 2240 4 5 6	11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	2.74 3.37 3.81 3.19 3.03	7 6 7 2	296 349 424	1.5 2.0 1.9	5 5 5	0.46 0.2 0.55 0.2	62		200007-200															1990)
9 0 1 2 2240 3 2240 4 5 6	11125 11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	2.74 3.37 3.81 3.19 3.03	7 6 7 2	296 349 424	1.5 2.0 1.9	5 5 5	0.46 0.2 0.55 0.2	62		200007-200			3						· · ·		1962				
0 1 2 224(3 224(4 5 6	11150 11175 00N-11200E 00N-11225E 11300 11325	5 0.4 5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	3.37 3.81 3.19 3.03	6 7 2	349 424	2.0 1.9	5 5	0.55 0.2		18		5.51	0.26	26	15	1.39	1071	2	0.06	33	0.09	10	44	0.36	144	176
1 2 2240 3 2240 4 5 6	11175 00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.2 5 0.2 5 0.2 5 0.2	3.81 3.19 3.03	7 2	424	1.9	5			10	39 44	5.12	0.23	20	13	1.10	1249	3	0.05	23	0.12	15	37	0.31	122	136
2 2240 3 2240 4 5 6	00N-11200E 00N-11225E 11300 11325	5 0.2 5 0.2 5 0.2	3.19 3.03	2				A AA 20000000	73	19	46 34	5.51	0.30	29	15	1.23	1328	3	0.05	27	0.08	21	46	0.32	134	143
3 2240 4 5 6	00N-11225E 11300 11325	5 0.2 5 0.2	3.03		339	2.1		0.29 0.2	84	19	52 34	5.54	0.34	30	15	1.06	1458	3	0.05	32	0.10	14	34	0.32	122	126
4 5 6	11300 11325	5 0.2	6	∠ 8			5	0.35 0.2	68	15	46 28	4.64	0.30	28	15	0.73	1315	3	0.08	26	0.13	13	32	0.32	100	135
4 5 6	11300 11325	5 0.2	6	🖌 🖉	2007/01/01/0																100				3	
5 6	11325				195	1.4	5	0.76 0.2	53	20	48 34	5.43	0.23	24	12	1.13	973	2	0.06	24	0.09	9	58	0.43	162	175
6		5 0.0	3.81	2 🖉	450	1.6	5	0.57 0.2	68	22	32 48	4.75	0.45	30	17	1.12	1477	3	0.11	30	0.11	14	48	0.35	140	171
-	1.1425	2222222222	3.11	7 🖗	279	1.6	5	0.81 0.2	64	17	31 31	5.20	0.33	29	14	1.01	985	2	0.08	23	0.09	8	54	0.40	149	149
7 2240		5 0.4		7 👸	259	1.6		0.90 0.2	60	19	37 30	5.47	0.26	25	12	1.08	1020	3	0.06	23	0.09	8	55	0.45	167	148
	00N-11450E	5 0.2	2.93	7	254	1.6	5	1.03 0.2	62	20	33 31	5.79	0.24	26	12	1.14	1080	2	0.06	23	0.09	8	61	0.49	182	154
	00N-11475E	5 0.4	9 1 1	6 🖉	396	1.8	- 5	0.75 0,2	68	22	34 38	5.54	0.35	31	15	1.03	1344	2	0.08	26	0.12	11	51	0.40	153	167
9	11525	5 0.4	3.14		314	1.6	5	0.92 0.2	63	21	50 35	5.52	0.29	28	13	1.07	1125	2	0.06	26	0.11	9	59	0.42	161	155
01	11550	5 0.2	3.08	12	308	2.0	5	0.94 0.3	69	25	48 42	6.01	0.25	34	18	1.13	1178.	2	0.07	30	0.11	9	56	0.49	182	160
02	11575	5 0.4		16 🖉	330	1.8	5	0.97 0.2	70	26	51 40	5.97	0.29	33	17	1.16	1247	2	0.06	31	0.11	8	60	0.46	179	157
03 2240	00N-11600E	5 0.2	3.04	11 📓	357	1.5	5	1.27 0.2	66	30	39 36	6.27	0.23	27	15	1.35	1580	2	0.07	28	0.10	6	73	0.49	192	155
																									2	
	00N-11175E	5 0.2		5 🖉	189	1.4		1.00 0.2	60	19	46 36	5.39	0.24	26	13	1.12	937	2	0.07	24	0.09	6	66	0.44	161	139
05	11200	5 0.2		5 🐰	275	1.5		1.06 0.2	61	23	41 41		0.24	26	13	1.41	1200	1	0.07	25	0.10	7	. 73	0.46	182	131
06	11225 *	5 0.2		5 🛞	131	1.3	5	1.20 0.2	60	27	12 35	6.45	0.09	22	12	1.78	1331	1	0.08	16	0.10	4	70	0.53	223	125
07	11250	5 0.2		6	224	1.7	5	0.94 0.2	65	20	34 35	5.87	0.27	26	14	1.27	1113	1	0.07	26	0.10	7	64	0.44	178	129
08 2260	00N-11275E	5 0.2	3.18	8	400	1.8	5	0.94 0.2	72	20	47 34	5.58	0.32	29	- 15	1.13	1191	2	0.10	27	0.10	7	56	0.41	151	138
		_ 3333		_ 22										80											ŝ	
	00N-11300E	5 0.2		5 🎡	167	1.4		0.99 0,2	62	-19	37 33	4.83	0.23	24	12	0.98	1003	2	0.06	20	0.08	7	64	0.37	144	108
10	11325	5 0.2		2023	149	1.2		1.08 0.2	58	19	44 29	4.82	0.21	23 🛛	11	1.03	854	2	0.05	19	0.08	6	69	0.38	149	109
11	11350	5 0.2		2243	204	1.3	5	1.02 0.2	54	19	33 33	5.12	0.24	23 🖇	11.	1.11	954	1	0.06	20	0.08	4	65	0.40	155	130
12	11400	5 0.2	2.58	1 200	229	1.3		0.96 0.3	- 55	20	26 51	5.01	0.25	23	<u>ו 11</u>	1.06	1167	1	0.06	17	0.09	8	59	0.39	153	132
13 2260	00N-11425E	10 0.2	2.80	6 🖉	253	1.4	5 (0.98 0,2	56	17	40 34	5.13	0.27	25	12	1.05	982	2	0.07	19	0.10	6	64	0.41	155	141
4 00/0				- <u>-</u> 🕷			_																			
	00N-11450E	5 0.2	2.99	552		1.3		1.05 0.2	59	19	35 31		0.27	25	2000.0000	1.11		0000000000	0.06		0.10	10		0.43	172	159
15	11475	5 0.6	3.86			1.5		1.05 0.8	65	28	27 59		0.27	29	00007700	1.58		666666776	0.07		0.14	33		0.46	190	319
6	11500	5 0,2	2.84		0000000	1.3		1.38 0.7	60	21	26 50		0.19	25	0000-000000	1.27			0.06	19	0.11	29	87	0.51	191	277
17	11525 *	5 0.2	2.53	3 🛞		1.2	5	1000 C C C C C C C C C C C C C C C C C C	56	23	18 50		0.09	20 🛛		1.81			0.06	18	0.12	30	36	0.46	160	381
8 2260	0N-11550E	5 0.2	2.83	3 🛞	202	1.3	5	1.10 0.4	56	-23	38 43	5.71	0.21	24 🖉	- 13	1.32	1267	2	0.06	23	0.11	14	53	0.49	180	203
0 0010		_		. 38										. 8							0000					
	X0N-11575E	5 0.2				1.2	-	1.13 0.3	54	24	39 37		0.17	22		1.42			0.05	19	0.11	13	51	0.51	207	176
20	11600	5 0.2				1.3		1.05 0.8	55	24	41 70	5.98	0.19	24	13	1.39	1324	2	0.05	21	0.11	26	54	0.49	209	291
21	11625	5 0.2	2.92	2200		1.9	5.0	0.91 1.0	70	26	43 112	6.08	0.25	31 🖁	17	1.15	1353	3	0.05	21	0.10	20	55	0.45	194	331
22	11650	5 0.2	2.82		0.00000	1.9	5 (0.80 0.2	65	25	35 45	5.92	0.26	31	16	1.03	1429	2	0.07	25	0.10	9	49	0.43	181	152
23 2260	00N-11675E	5 0,2	2.72	12 🐰	194	1.8	5 (0.55 0.2	59	28	32 42	6.05	0.24	24	14	0.86	1802	2	0.07	21	0.13	11	40	0.41	189	176
																	· · §				000				, in the second s	
	00N-11075E	5 0.2	3.32	2 🖉	93	2.4	5 (0.46 0.2	58	15	14 20	4.37	0.12	22	8	0.44	1183	2	0.11	9	0.20	5	19	0.38	85	96
25	11100	5 0.2	3.35	3 🖉	155	1.9	5 (0.67 0.2	76	23	32 31		0.21	32		0.91			0.07		0.23	7		0.41	144	112
26	11125	5 0,2	2.66	10 🐰	178	1.4	5 (0.80 0.2	56	27	23 30	6.34	0.21	22		1.01			0.06		0.25	7		0.42	198	125
27	11150	5 0.2	2.86	14 🖉	202	1.4	5 (0.78 0.2	69	28	42 32		0.24	28		1.20			0.06		0.15	9		0.47	193	120
28 2280	00N-11175E	5 0.2	3.11	13	212	1.6		0.67 0.2	63	25	50 32		0.32	24	A 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.05			0.06		0.15	9		0.50	184	127

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T.T.		Λu	Ag	٨I	As	Ba	Be	Bi	Ca	Cd	Ce	Со	Cr	Cu	Fe	ĸ	La	Li	Mg	Mn	Мо	Na	Ni	P	Pb	Šr	Ti	v	Zn 9109-051
No.	<u>No.</u>	ррь ј			ppm	ррт	ррш	ррт	- %	ppm	ррт	ррш	ppm	ppm	%	%	ррш	ppm	%	ppm	ppm	%	ppm	%	ррт	ppm	%	ppm	ppm Pg. 4 of 4
129	22800N-11200E	5 🖉	2000 A.	2.72	11	180	1.5	5	0.67	0.2	61	23	40	27	6.04	0.26	24	13	0.96	1461	2	0.05	21	0.14	7	33	0.53	186	112
130	11225	5 🖉		2.19	8	127	1.3	5	0.67	0,2	50	18	31	23	5.74	0.17	22	10	0.87	1078	2	0.05	14	0.14	3	28	0.57	188	110
131	11250	5 🛞	0.2	2.95	5	180	1.4	5	0.81	0.2	65	22	31	31	6.28	0.20	28	13	1.09	1275	2	0.06	20	0.13	5	34	0.57	201	117
132	11275	5 🖉	0.2	3.94	2	246	1.7	5	0.73	0.2	65	18	26	40	5.97	0.26	34	15	0.96	1075	2	0.06	22	0.18	8	29	0.39	165	150
133	22800N11300E	5 🦉	0.4	2.87	12	169	1.4	5	0.77	0.2	59	21	45	39	5.55	0.29	24	13	1.00	1291	2	0.07	27	0.12	7	43	0.39	160	126
1																													
	22800N~11325E	222	200000-00	3.41	5	222	1.6	5	0.62	0.2	61	18	66	38	5.55	0.39	29	16	1.12	971	2	0.07	38	0.09	6	42	0.39	145	130
135	11350	5 🖉	0.2	2.60	7	170	1.5	5	1.01	0.2	64	22	35	33	5.44	0.25	27	12	1.26	1151	1	0.07	21	0.09	7	51	0.46	167	122
136	11375	5 🚿	0.6	2.85	12	193	1.5	5	1.08	0.2	58	21	44	30	5.60	0.25	27	12	1.13	1032	1	0.06	22	0.09	9	65	0.48	178	151
137	11400		0.6	2.99	- 4	210	1.5	5	0.98	0,2	61	21	54	33	5.86	0.24	27	13	1.08	1046	2	0.06	22	0.11	8	60	0.48	180	154
138	22800N-11425E	5 🦉	0.4	3.12	7	250	1.4	5	1.01	0,5	63	26	29	38	5.98	0.24	25	12	1.25	1462	1	0.06	21	0.11	9	55	0.49	191	166
	22800N-11450E	5 🛞	6.0000	2.74	9	226	1.4	5	1.12	0.2	69	21	45	33	5.48	0.25	29	12	1.22	1094	2	0.07	24	0.10	8	48	0.44	165	144
140	11475	5 🎬	NA 24 A	2.89	7	216	1.4	5	1.04	0.3	62	20	44	31	5.49	0.26	26	12	1.30	1046	2	0.06	24	0.10	7	54	0.43	167	149
141	11500	5 🎡	Second	2.89	9	262	1.8	5	0.81	0.4	65	20	45	37	5.37	0.25	32	16	1.04	1044	3	0.06	24	0.11	14	49	0.43	163	165
142	11525	5 💥	9999-0969	2.77	10	270	1.8	5	0.91	0.4	66	20	42	35	5.56	0.23	30	16	1.04	1058	2	0.06	23	0.10	14	53	0.46	168	175
143	22800N~11550E	5 📓	0.4	2.91	6	276	1.5	5	0.95	0.2	63	21	41	39	5.68	0.24	- 29	15	1.19	1120	2	0.06	23	0.12	9	49	0.46	185	198
		_ 33																											
	22800N-11575E			2.77	. 7	235	1.4	5	0.95	0,2	55	21	35	37	5.81	0.21	26	13	1.22	1102	2	0.06	20	0.11	9	- 43	0.49	192	198
145	11600			3.10	6	296	1.5	5	0.78	0.2	62	21	31	38	5.78	0.22	29	13	1,06		2	0.07	20	0.14	14	37	0.47	183	216
146	11625	- 223		2.55	11	276	1.3	5	0.89	0.3	55	24	29	- 38	6.03	0.19	24	12		1588	2	0.05	18	0.11	14	33	0.50	220	223
147	11650	2001		2.77	7	178	1.5	5	0.82	0.2	57	24	35	- 35	6.50	0.19	26	12			2		19	0.13	7	31	0.56	237 :	197
148	22800N-11675E	5 🎆	0.4	3.03	6	194	1.5	5	0.75	0,2	64	23	45	33	5.96	0.21	27	13	1.11	1309	1	0.05	21	0.13	9	- 38	0.49	200	175
1.61	1150012 0105011	🕷		0.01																									
	11500E-21850N		000000	2.86	3	256	1.2		1.00	0.2	52	20	34	28	5.73	0.27	22	13	1.31			0.05	22	0.09	2	55	0.45	174	126
152	21900	2003	an a	2.49	2	192	1.3	5	0.70	0.2	52	18	34	29	4.50	0.22	23		0.77	1689		0.00	19	0.20	<u>∞ 3</u>	44	0.29	124	130
153	21950	- 333	8666 AN	2.86	2.	217	1.4	5	0.93	0.2	54	21	39	- 38	5.69	0.24	23	13	1.12	1404			21	0.08	3	66	0.40	181	138
154	22050	. 1996	226266	2.80	4	269	1.3		0.89	0.2	54	20	51	52	5.56	0.24	26	13		1072			28	0.09	4	57	0.40	154	145
155	11500E-22100N	5	0.6	2.83	1	237	1.4	5	0.90	0.2	56	22	43	41	5.79	0.23	25	13	1.29	1183	1	0.05	24	0.10	17	55	0.42	172	149
156	11500E 22150N			a /a	,												3												
1	11500E-22150N	2222	0000000	2.69	4	200	1.4		0.98	0.2	61	21	43	- 34	5.77	0.23	25		1.32			0.06		0.09	7	59	0.44	176	137
157	22450			2.95	8	226	1.4	5	1.10	0.2	63	20	42	31	5.41	0.31	25			1156		0.06	25	0.09	6	71	0.39	166	168
158	22550	_ 3332	000000	2.76	2	243	1.4	5	1.26	0.2	63	20	40	28	5.76	0.24	25	3333577A		1153		0.05	19	0.11	11	69	0.49	192	161
159	22650	1 10200		2.98	4	295	1.3	5	1.09	0.2	62	23	39	- 38	5.83	0.22	26	20000777700		1204		0.06	24	0.12	10	57	0.49	190	177
160	11500E-22700N	⊃ ‱	0.6	2.32	6	82	1.2	. 5	0.82	0.2	48	19	15	- 30	5.60	0.09	19	10	1.42	1029	2	0.11	16	0.10	5	31	0.47	175 -	177

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

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		Ma	oject Namo terial: marks:	•		10 SO	ILS ned @	35 ME	3SH (0.			Geol.: Shect:	1 of		0.0.0.00	nple dige		Date	compl	cted;	JULY AUG.	15			CODE:	1	9107	-10	0 ,
	ł	CP	- 0.2 g samp				-			03 °C fo	r 4 bou	rs dilute											ι, (D.L.	J LLD					
			The major of																							• 1			
SAMP	i F		Au Ag	Â	As	Ba	Be	D	C-	~~~	<u> </u>		-7-		17-	v			M-			N	Ni	P	Pb	Śr	Tī	v	Zo
	No.		Au Ag					Bi	Ca %	Cd ppm	Ce ppm	Co ppm	Cr	Cu	Fe %	K %		Li	Mg %	Mn ppm	Mo	Na %		-	ru ppm			ppm_	
132			5 0.2					10	1.40		38	29	16		8.39	0.42	25			1540		0.05	12	0.15	2	139	0.72	180	
	287	•	5 0.2	5.38		124	1.6	7	0.93	0.6	40	21	3	17	8.58	0.24	26	27	2.62	1196	2	0.06	7	0.16	2	42	0.73	181	191
	288	•	5 0.2			101			0.95	0.2	34	23	4	18		0.13	22	24		1521		0.07	7	0.16	2	23	0.73	177	179
	289 290		5 0.4 5 0.2	3.56 6.23	-18 2	88 145	1.3 1.1		0.65 2.71	1.7 0.2	28 40	16 13	6		7.79	0.11 0.18	21 21	17 14		992 973		0.04 0.03	23 7	0.12 0.10	10 2	23 163	0.47 0.26	226 67	469 130
1.54	290			0.43	2	147	1.1	5	2.71		40	15	3	10	5.00	0.10	21	17	0.00	915		0.03		0.10		105	0.20	,	
132			5 0.2	4.63	2	197	1.6		0.76	0.2	42	50	20	36	9.86	0.26	25	18	0.99	2310	4	0.08	20	0.16	2	69	0.45	267	165
132			5 0.2						1.95		49	19	6		6.71	0.16	22	18		1164		0.05	8	0.11	2	115	0.33	101	144
132 132			5 0.2 5 0.2		2 2			67	0.84 0.83	0.3 0.4	48 47	31 37	17 19		7.85 7.78	0.29 0.25	26 25			1728 1856		0.06 0.06	15 13	0.11 0.15	3 4	59 46	0.42 0.46	193 191	153 205
	295	•	5 0,2						0.85		47	21	6			0.25	23 24			1018		0.00	11	0.13		40	0.40		137
			- 000.7787					· ·		000000000			•	89600 77 0800		0.21		00000077000	2000		2002000000000				000000700				
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TA AMALYTICAL			N	lora	anda	Ex	plo	rat	ion	co.	Lt	:đ.	PRC	JE	CT 9	9108	8-02	26 2	289	F	ILE	#	91-:	333	6		P	age	2	ACH		TICAL
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Žn ppm	Ag ppm	Ni ppm	Co ppm	Mnj ppm	Fe X	As ppn	U ppm	Au ppm	7h ppm	Sr ppm	Cd ppm	Sb ppm	8i ppm	V ppm	Ca X	P X	La ppm	Cr ppm	Mg X	Ba ppm	Tj X	B ppm	Al X	Na X	K X	V ppm	Au* ppb	
132320	8	11	52	76	.2	3	3	5	11.52	104	5	ND	3	46	.3	9	4	16	.02	2 .027	5	1	.01	375	.01	2	.54	.02	.12	1	16.1	
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Geological, Geochemical, and
Geophysical Report on the
BALL CREEK PROPERTYOctober, 1991
Page 20

APPENDIX IV

CERTIFICATES OF ANALYSIS - ROCKS

ME ANALYTICAL	LABC	ORAJ	'ORI	ES	LTD	••										ER B. CEF			A IR Ate					04) (^)	253 /&	-31 \	58	FA	X(60	4)253	
		<u>No</u> 3	<u>can</u>	<u>da</u>	Ex	<u>plc</u>	ra			• L1	Ŀđ.	P	ROJ	JEC	т 9	<u>107-</u> BC V6	-10	0 2						-2	920	,				4	
SAMPLE#	Мо ррт	Cu ppm	Pb ppm		1210172	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm			Sr ppm	Cd ppm	Sb ppm		V ppm	Ca X	р %		Cr ppm	Mg %		Ti X p		Al X	Na %		V Au* m ppb	
132025	1	119	2	376	.4	12	21	1817	6.90	10	5	ND	1	92	1.6	3	2	118	1.25	.081	3	13 2	2.83	25	.23	2 3	5.48	.01	.01	15	
132026		044	53			; :-		1095	5.67	75	5	ND	i		3.1	5		70		.024	5	24			.04	2 1	.38	.02	.01 🖏	1 99	
132027		107	2	13	10.111.00		3	129	.73	5	5	ND	1	2	ંટ	2	5	13		.007	2	9	.21	15	.01	2	.23	.01	.01 🕈	1 3	
132280	2	26	ž	58		; -	14		10.98	20	5	ND	1	8	1.8	8	4	140	.37	.238	7	6	1.07	16	.02	2 1	1.29	.06	.02	1 1	
132281	1	29	Ž	69			12	551	7.85	4	5	ND	1	28	1.1	3	2	123	1.81	.358	13	12	1.06	48	.50	2 1	1.55	. 11	.02	1 1	
132282	7	12	7	76	3	11	2	101	2.01	5	5	ND	3	13	.7	2	6	15	. 12	.020	24	10	.11	91	.01	2	.32	.08	.04	1 1	
132283	12	15	2	116	<u>ि ।</u>	12	14	896	10.40	24	5	ND	1	17	2.4	11	2	162	1.50	.082	3	14	1.25	58	.54	2 ′	1.43	.10	.06	1 1	
132284	3	24	່ 2	76	2.2	13	18	435	8.30	7	5	ND	1	6	1.5	9	2	218	.70	112	- 4	23 2	2.16	27	.60	2 2	2.09	.11	.01 🖔	1 1	
132285	1	18	40	108	.6	9	34	982	10.91	101	5	ND	1	31	2.3	8	2	183	1.58	.130	2	10	1.54	20	.65	2 2	2.03	.08	.01 🕴	1 11	
132514	16	17	2	14	1.1.1		5	106	15.89	666	5	ND	1	5	.7	2	15	26	.23	.042	2	8	. 16	7	.44	2	.25	.06	.01	1 20	
132515	1	111	2	51	1	4	4	345	1.46	12	5	ND	1	113	1.0	12	7	31	1:66	.018	2	3	.38	553	.01	2	. 10	.01	.01	1 5	
132516	68	36	1Õ	12	5	28	5		19.40	53	5	ND	ż	4	.7	2	ż	3	.03	.002	2	7	.05	60	.01	2	.11	.02	.09 🖇	1 23	
132517	1		298	566			16	1603	6.39	9084	5	ND	· 1	236	21.3	5410	2	52	11.61	.026	2	13	3.07	230	01	3	.31	.03	.04	1 3	
132518	1		956	780		·		1700		17706	5	ND			31:1	15357	2		13.53		2		3.67			2		.02		1 2	
132519	8	921	66		7.7	. -	29	323	2.23	303	10	ND	1		5	141	5	54		.034	10	12	.36	266	.05	2	.59	.01	.07	1 91	
132520	3	424	69	218	7	17	64	429	2.42	103	5	ND	1	10	1.3	66	2	78	.99	.040	3	48	.79	157	.17	2	.84	.02	.11	1 60	
132521		1114				14	20	708	4.40	232	ร์	ND	1		29.0	136	5	50	.21	.018	2	44	.85		.04	2		.01		1 84	
STANDARD C/AU-R	17	59				S		1091		43	16		40		18.6			55		.093	40	59				77				11 450	

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

191. DATE RECEIVED: JUL 26 1991 DATE REPORT MAILED: SIGNED BY

	PTCAT		BOR	ATOR	TES	LTD		8'	52 E.	HA	STIN	GS 5	m.	VANC		ER B	.c.	V6	A IR	6	P	HONE	:(60	4)253-:	3158	FAI	(604	() 4) 253-1	.716
££										OCH	EMI Lt	CAL d.	AN PRO	ALY JEC	818 T 9	CE 108	rti	FIC 5_2	ATE	ß	all	U	. ()	АБ) 3202				£	2
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Со ррла	Mn ppm	Fe X	As: ppnt	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	. V ppn	Ca X	P X	La ppm	Cr ppm	Mg X	Ba Ti ppm ?	× -	AL X	Na X	K W X ppm	S
132303	112	74	6	580	.6	63	14	713	7.56	67	7	ND	1	41	5.4	10	2	129	4.53	.162	· 8	12	.43	38 .1		1.10	.04	.17 3	6
132304	8	22	5	72	.5	12	13	578	17.14	38	5	ND	1	9	.3	- 4	2	157		.231	9		1.52	12 7	59	1.60	.05	.01 📰 1	<u>§</u> 1
RE 132308	32	59	22	342	1.0	54	7	245	9.74	48	5	ND	11	6	3.9	16	2	136		.050	2	15	.53	15 .21		.60	.04		2
132305	5	30	5	114	.3	20	7	332	7.01	8	5	ND	1	- 4	1.8	2	2	150		.056	2	13	.78	36 .5		.97	.06	.02	2
132306	1	26	4	45	-3	6	9	528	10.27	24	5	ND	1	7	.2	4	2	171	1.12	.072	4	25	1.19	53 .5!	5	1.80	.05	.03 1	2
132307		5	6	36		6	1	69	.84		5	ND	۲	6	.2	2	2	3	.05	.006	27	3	.05	66 0	i 3	.21	.03	.06	Ű 1
132308	32	55	22	334		53	ż	233	9.23	46	5	ND	1	. 5	3.7	14	2	132		047	2	15	.50	16 .2		.58	.04	.05	ě 3
132309	7	16	- T	49	88 T	9	15	323	5.43	T	5	ND	1	7	1 i 2	2	2	174		.085	4	14	.77	27 5		.82	.06	.02 📖	Ű 1
132310	11	16	2	68	22		14		12.95	22	ŝ	ND	1	15		2	ž	116	-	.045	4	17	1.24	15 34		1.35	.05	.02 🕅	61
132311	8	24	Ž	110	.3	13	18	609	9.89	20	5	ND	1	6	.8	5	2	150	.60	.068	5	22	1.79	21 .4	1 2	1.74	.06	.01	1 4
132312	2	28	2	76	.2	10	16	385	5.84	12	े 5	ND	1	7	.4	2	2	187		.086	5	27	.95	39 ,5	336 –	1.11	.09	.02	1 3
132313	32	28	- 4	69		16	28	385	7.31	25	5	ND	1	9	.4	7	2	169		.086	6	24	.74	11 .4		.87	.09	.01	
132314	19-	12	3	65		1	7		31.06		5	ND	2	4	.2	2	2	252		143	2	2	.03	37 .2		.98	.03	.03	
181646	1 1	28	2	116		15	35	894	9.96	3	5	ND	2	32		4	2			. 136	11		2.23	34 7	566 T	2.92	.10	.02	§ 2
181647	1	47	2	82	.1	12		1344	5.17	2	5	ND	1	47	.3	2	2			.045	4		1.87	61 .4		2.55	.18	.05	E 5
STANDARD C/AU-R	18	59	38	132	6.9	69	32	1037	3.96	43	17	7	37	51	18.7	15	17	56	.48	.090	38	58	.88	180 .0	9 33	1.88	.06	.15	5 480

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PP8 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. <u>Samples beginping 'RE' are duplicate samples.</u>

itng 12/91. AUG 6 1991 DATE REPORT MAILED: DATE RECEIVED:

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ACME AN	ALYT]	I CAL	LAE	BORA	TOR	ES 1	LTD .		85	2 E.	an a	an de services	AN 1666 AN 18					2000 CO	an da	1R(IONE			1-31	58	FAX (604)25:	3-1716
AA										GE)CHI	EMIC	CAL	AN/	ATX8	318	CEF	(TI	71C7	ATE	Bal	K ((x .	(ð	4)						
ŤŤ			<u>No</u>	<u>ra</u> r	<u>nda</u>	Ехр	<u>lor</u>	ati	<u>.on</u>		Lto	11	PROJ	rec'i	r 9:	108-		5 28	<u>39</u>		lle.		91-3	333(6	Pag	ge 1	•			
SAMPLE#	Mo	Cu	РЬ	Zn	Ag	Ni	Co	Mn	Fe	٨s	U	Au	Th	Sr	Cd	Sb	Bi	۷	Ca	P	Le	Cr	Mg	Ba	T١	B	٨١	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	X	ppm	ppm	ppm	ppm	ppm	ррп	ppm	ppm	ppm	×	X	ppm	ppm	<u>×</u>	ppm		ppm	X	X	<u>×</u>	ppm	ppb
132315	1	14		79	.2	6	14	603	5.82	2	5	ND	1.	40	.3	Z	2	192	2.99	.094	11	11	1.54	48	-53	_	1.72	.04	.04	1	4
132316	1	18	4	86	33	7	16	680	6.35	2	5	ND	1	47	.2	- 4	2	206	3.60	.095	11	13	1.63	42	54	3	1.78	.04	.03		3
132317	2	20	19	81	.8	8	11	1669	17.30	69	5	ND	1	37	.6	12	2	82	5.98	.039	4	10	.71	16	.28	2	.78	.02	.01		13
132318	1	9	3	11		5	1	182	.56	Z	5	ND	1	3	.2	2	2	3	. 18	2001	2	6	.03	40	.01	- 3	.06	.01	.01		2
132319	2	4	19	17		3	1	57	1.32	13	5	ND	1	41	. 2	2	2	5	.03	,005	5	1	.02	159	.01	5	.30	.05	.14		4
																										_					_
RE 132315	1	14	8	78	.3	6	- 14	612	5.80	- 4	5	ND	1	39		5	2	192	3.08	2093	11	10	1.56	49	.53	2	1.72	.04	.04		7

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB AU* ANALYSIS BY ACID LEACH/AA FROM 10 GH SAMPLE. - SAMPLE TYPE: P1 ROCK P2 SOIL

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED:

AUG 8 1991 DATE REPORT MAILED: Hug 14/91.

SIGNED BY.

Copy to Mike + 2 file 289-Ball Cik

AUG 1 9 19<u>0</u>1

												$\left(\right)$)												$\Big)$		
ACME ANALY	FICAL J	ABOR	ATOF	RIES	LTD	•	85						ALYSI									1)253-31 MJ)	58 FA	K(60/	4)25	3-17	16
AA	1	<u>Nora</u>	<u>nda</u>	Ext	<u>0101</u>	rati	<u>ion</u>		Lt	1.]	PRO	JEC	r 910 Vancouve	9-03	02	89						*******	ge l				
SAMPLE#	Hio C ppm pp			Ag ppm	Ni ppm	Co ppn	Mn ppm	Fe X	As	U.	Au	Th ppm	Sr Co ppm ppr	l Sb	Bi ppm	v	Ca X	P X	La ppm	Cr ppm	Ng X	Ba Ti ppm %	B Al ppm X	Na X	K X	89999398	Au* ppb
09360 09361 09362 124684 124685	1 2 7 2 5 1 1 2 1 2	9 4 9 20 8 10 7 4	91 228 62 104	.1 .2 .1 .1 .1	9 23 12 12 9	23 2 11 21	605 340 1047 567 833	6.34 2.85 9.78 6.58 8.80	2 7 9 2 5	5 5 5 5 5 5	ND ND ND ND ND	1 3 1 1 1	20 17 2.4 126 21 11	2 2 5 2	2 4 2 2 2	189 40 164 209	1.74	.017 .135 .128	6 32 12 10 9	13 13 35	1.42 .34 1.68 1.79 1.55	28 .63 31 .21 59 .53 22 .82 32 .77	4 2.17 2 .81 2 6.40 6 2.04 3 2.38	.05 .07 .07 .09 .05	.02 .05 .10 .02 .02	1 2 1 1 1	7 6 1 12 1
24686 24687 24688 24689 24690	1 1 1 2 1 2 1 2 1 2	1 2 2 5 0 5	69 30 62 81 80		9 7 9 9	9 15 14	557 288 389 420 740	7.66 9.23 5.86 5.75 5.77	2 2 2 2 2 2 2 2	5 5 5 5 5	ND ND ND ND	1 1 1 1	5 30 5 26	2 2 2	2 2 2 2 2 2	190 190	1.28 .83	.110 .098	14 5 10 11 5	21 18 16	1.39 .86 .93 .93 1.53	17 ,75 26 ,74 22 ,64 22 ,69 10 ,50	2 1.93 2 1.66 2 1.09 2 1.11 2 1.87	.07 .07	.01 .02 .03 .02 .01	1 1 1 1	1 1 4 2 1
124691 124692 124693 RE 132237 124694	-	8 4 5 2 8 5	43 71 70 61 44		5 9 3 6 12	20 11 5	912 604 482	13.16 6.11 7.86 8.40 13.37	2 2 22 12 23	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	9 🛛 🕄	2 2	2 2 2 2 2	152 176 168	.92		2 5 6 10 2	- 33 10	.98 1.66 1.26 1.67 .34	17 .37 69 .54 51 .76 93 .71 10 .27	2 1.08 2 2.14 2 1.50 2 1.94 2 .40	.08 .05 .04	.01 .03 .04 .03 .01	1 1 1 1	3 1 1 2 1
124695 132201 132236 132237 132238	1	5 21 7 7 8 8	83 63 80 61 153	.1 .6 .1 .1 .1	12 9 2 6 4		669 536 442 472 723	17.71 8.83 7.90 8.32 8.66	13 14 2 11 5	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	7. 10. 11.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2	113 150 164	1.07	.181 .340 .217	15 5 12 10 10	17 4 6	2.04 .47 1.83 1.64 1.60	19 .92 13 .43 102 .73 98 .71 88 .87	3 2.27 2 .95 2 2.00 2 1.90 2 2.20	.04 .05 .04	.02 .05 .04 .03 .02	1 1 1 1	1 3 5 4 2
132239 132240 132241 132242 132242 132243	2 1 1 1 1 1 5 1 3 1	6 4 9 6	73 20		5 8 5 6		575 1241 437 181 628	11.33 7.91 6.70 4.32 6.09	4 11 2 8	5 5 5 5	ND ND ND ND ND	1 1 1 1	19 . 41 .	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2	259 83	2.67	.157 .075	7 11 11 11 12	9	1.59 2.06 1.23 .25 .52	32 .77 60 .72 54 .73 56 .46 44 .37	2 1.87 2 2.22 2 2.02 2 .59 2 .90	.04 .04 .06	.02 .04 .04 .07 .03	1 1 1 1	4 4 1 4 2
132244 132245 132246 132247 132248	3 1 5 18 3 12 1 7 1	6 2 3 12 5 4	10	.1.2.1.2	5 3 32 16 6		193 757 414 486 196	2.81 9.97 4.20 21.79 7.27	2 13 11 27 17	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	7 1.9		3 2 3 4 2	× 161	.67 .27 .44	-083 -154 -036 -075 -070	15 7 8 6 4	11 12 11 11 9	.30 1.66 .62 .86 .31	46 .39 10 .77 58 .29 9 .59 34 .55	2 .60 2 2.32 2 1.09 2 1.73 2 .53	.05 .06 .05	.05 .01 .06 .02 .13	1 1 1 1	1 2 4 2 2
132249 132250 132892 132893 132894	2 1 3 1 34 8 4 2 2 2	4 16 8 19 1 5	55 69 874 84 137	.1 .3 1.9 .1 .1	7 55 11	28 12 7	1088 947 367	7.99 8.29 5.90 13.07 9.70	7 8 30 21 4	5 5 5 5 5	ND ND ND ND ND	1 1 1 1	5. 11. 4. 8. 6. 13.	2 2 2 2 2	2 2 3 2 2	148 246 165	.80 .32	.091 .222 .035 .193 .421	4 3	18 12 9	1.41 .93 1.34 .74 2.09	24 .61 30 .45 64 .38 17 .65 46 .73	2 1.86 2 1.66 2 1.65 2 1.12 2 2.38	.03 .02 .05	.02	1 1 4 1 1	3 3 5 3 3
135397 135398 Standard C/AU-R	10 4 4 1 18 5		78 41 132			2	263	7.00 9.29 3.96	36 10 38	5 5 18	nd Nd 6	1 1 36	41 . 12 . 53 18.		2 2 18	281		.025 .078 .091			.89 1.17 .88		4 4.56 2 2.20 34 1.88	.06	.05	1 1 11	4 3 450
	ik -	IS LEA SAY RE SAMPLE	CH IS Comme Type	PARTI NDED F : ROCK	IAL FO FOR RO	NR MH NCK AN AU* A	FE SR ID COR INALYS	RE SAMP RE SAMP SIS BY	LA CR LES I ACID	MG BA	A TI PB ZN /AA FI	BWA AS> ROM1	ND LIMIT 1%, AG 0 GM SAM	ED FOR > 30 P PLE.	NAK PM& Samply	AND Alt>	AL 1,000	AU DE PPB ng /R	rectio E' are	N LIP	(IT B) Licato	ML WITH W (ICP IS 3 e samples.		SEP			
DATE REC	EIVED:	SEP	4 199	1 D	ATE	REPC	DRT	MAILE	SD :	De	pt i	u/g	7/. ⁵¹	GNED	BY:	····	• • • •	·7·	D.TOY	E, C.	LEONG	, J.WANG;		<u>B.C.</u> 그 ()			. 27

			No	randa	: Exj	2 10 1	rati	on Co	• L	tđ.	PRO	OJEC	т 9	109	-03	0 2	89	FI	LE	# 9	91-4	131	<u>-</u>		Pa	ge	2		
SAMPLE#	.∺Mo ppm	Cu	Pb ppm	Zn Ag ppm ppn		Co ppm		Fe As X ppr		Au	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	3	P X	La ppm	Cr ppm	Mg X	8a ppm	TI X	8 ppm	AL X	Na X	K X	U ppm	Au*
	1.1.1								÷																			000000	
135399	3	11	2	48 .2	3	10	190 9	.66 18	5	ND	3	12	Q	2	2	257	.06	065	0	10	.84	27	A.L.	3	1_40	-07	04		. 3
135399 135400 RE 135400			2 15	48 .2	~ ~	10 5		.66 18 .46 18	e -	ND ND	3 1	12 33	.9 .2	2	2 2	257 120	.06		9 14	10 9	.84 .75		.64 .33		1.40 1.04	-07 -06	.04 .08	1	- 3

Samples beginning 'RE' are duplicate samples.

Geological, Geochemical, and Geophysical Report on the BALL CREEK PROPERTY October, 1991

Page 21

<u>9</u>2

APPENDIX V

ROCK SAMPLE DESCRIPTIONS

PROPERTY Ball Creek

ROCK SAMPLE REPORT

	NORANDA			MPANY,	LIMITED)		N	.T.S	104	6/8	
	PROPERTY Ball						_				21	<u> </u> 91
	ROG	CK SA	MPLE	REPOF	RT			Р	ROJECT	2	89	
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	G⊿ ∧□ Ca	G⊿∧□ <i>P</i> 6	G⊿∧□ Zn	gØae As	©⊿⊏ <i>S6</i>		o⊿∧□ Au	SAMPLED BY
132025	Float in rubble / felsenneir	2	FLOAT		119	2	376	1	3	0.4	5	MĘ,
	Otr-epidote breccia, volcanic claste											
	miner py. 25 cm diam, angula Ball 13 claim										-	~
		-										·
32026	Float as above, drugy, vuggy	1	11		4044	53	451	75	5	7.4	99	11
	Float as above drusy vuggy gtr stringers in volcenie to locm wide, min cpy-served blars in area Crample Hig marked 289 "1")						· ·					
	in area Crample Hay marked 289 "1")				<u>.</u>							
132027	Float as above fine sugar to dury family banded quarter view, lots of similar material in area. (sample flag marked 289 "2")		<i></i>		107	2	13	5	2	0.3	3	*
	Faintly Sanded quarte view, lots											
	of similar matinal in area.											
	(Sample Hay marked 289 2)				\ \ \					_		
			· · · · ·									
					-	-						
	······											
					· ·							
		_		ļ								
				<u> </u>			ļ					
· ·							·					
							= GEOCH	IFM	A = ASS			L

								N.	T.S		••••••••••••••••••••••••••••••••••••••	
	PROPERTY BALL CK.	•					<u>ل</u>	D	АТЕ <u></u>	July	21	· · · ·
	RO	CK SA	MPLE	REPOF	RT			PI	ROJECT	28	<u>}9</u>	
SAMPLE NO	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	GZA Cu	G⊿ ∧□ <i>Pb</i>	GØAD Zr	G⊿ ∧□ <i>As</i>	₀⊿ ∧□ <i>56</i>	G⊿∧□ <i>Ag</i>	GΖ∧□ <i>Au</i>	SAMPLED BY
132514	From Creek "4700', rusty gossan 30 cm pod	1	grab		17	2	14	666	2	0.1	20	ECG
	of py cemented pyritic fragmental breccia. py very fine masses. Fragments appear bleached with a manganous oxide black			÷.								
	powder in the natrix. Gossan hosted in hiffaccous? matic porphyritic rock.											
137515					111	2	51	12	12	0.1	5	206
<u>+ 22013</u>	all'd (tuff's?) Sample of 4 cm wide			· · · · · · · · · · · · · · · · · · ·								
	very dense non-carbonate mineral. Veine 026/80ml									P		
132616	Float, 10 cm from creck 50 m downstr.	<u>~100</u>	float		36	10	12	53	2	0.5	23	245
	of 132515. Black weathering pyrite cemented pyrite fragmental prx.											
	"Black smoker" collapse stoucture? Py all very fine masses											
132517	9500N, 9920E Subarap 10m2, of	1-3	Subcrop		13	298	566	9084	5410	0.4	3	ECG
	rusty cobbles in soil, of Fe-carb cemented											
	gy-brx w/ 0.5% dissem stibnite, 1-2% time situated dissemmations (Avsenojey inte?), and tr. galena											

南

	2							Ν.	T.S			<u> </u>
	PROPERTY BALL CR.	•			•		_	- DA	ATE -	uly ?	21,199	(
	RO	CK SA	MPLE	REPOR	T				ROJECT_	•		
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	GØAD Cu	G⊿ ∧□ <i>P6</i>	GØ∧□ Zn		G 🗖 ∧ 🗋	GZAD	GTAN	SAMPLED BY
132514	Grid 9400N, 9850E, See 132518 for description	1-3	subcrop		16	956	780					ELL
132519	Bull North. Q2 boulder float. Vein gy commented Audesite brx. 40x40x30cm			·	921	66	7/	303	141	7.7	91	
<u>.</u>	Vuqqy, drusy qy w/ <170 dissem cpy, and mal. stain, tr. py.							-				
132520	Brx qy vein in andesite. 055/70 SE 25cm wide . 60% angular andesite trags.	<1	grab		424	69	218	103	66	0.7	60	ECG-
	Vuggy druce, gy ver tr. dissen py Loc. 100m west of 132519						·····				4. 	
132521	Flout next to 132519 . Vuggy gy vein w/ drusy gy, ~1% cpy dissem,	~ (gyab		1/14	76	7882	232	136	4.1	84	ECG
•												

NORANDA	EXPL	ORATION	COMPANY.	LIMITED
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PROPERTY BALL CREEK

N.T.S. 104 G/8 DATE July 21/91 PROJECT 289

SAMPLED

ΒY

DJH.

DJi

RO	CK SA	MPLE	REPOR	T			PF	OJECT.	2	89	
I OCATION & DESCRIPTION	%	TYPE		GŹA□	G₽∧□	G⊿∧□	Gℤ A 🗋	GZAD		G₽∧□	Ĩ
LOCATION & Description	SULPHIDES	ITFE	WIDTA	Cu	Pb	Zn	As		Ag	Au	
- plev. 4440', on south side	-10%	grab		26	2	58	20	8	0.1	1	I
		(
BALL 5 claim, greenish grey ducities	6)										
			:								
				· · · · ·					· · ·		
with angillite mud.											
		<i>,</i>	-								
- About sample on south BALL	-2%	Plant		29	2	69	4	3	0.3	1	
Ct. grid, L'10200N, ~ 101256											
- decette recaric rock with											
weak precia terture, ~ 2%									{		
- de sample at L 10400 N, 10250E		grab		12	7	76	5	2	0.3	1	
whitish angular felsic volcanic											
Frayments (~ 1mm - 3 cm) (~75%) sup-											
ported in black fine-grained		,									
oiliceous matrix - no 5× observed						•					
	LOCATION & DESCRIPTION - ellev. 4440', an south side of west flowing drainage in centra BALL 5 claim, greenish grey ducities volcanic fragments (-5->8 cm) supported in very fine grained pyrite matrix with angillite much. - Noort sample on south BALL CE. grid, LIO200N, ~ 10/25E - deacitic releanic rock with weak precia texture, ~ 2% pyrite in meetics + dissem - of cample at L 10400 N, 10250 E whitish angular felsic roleanic fragments (~ 1mm - 3 cm) (~ 75%) sup- parted in black fine-grained	LOCATION & DESCRIPTION SULPHIDES - elev. 4440', on south side ~ 10% of west flowing drainage in central BALL 5 claim greenist grey ducitie BALL 5 claim greenist grey ducitie Descanic frequents (-5-38 cm) supported in very fine grained pyrite matrix with angillite much. - Noort sample on south BALL ~ 2% CE. grid, LIO200N, ~ 10125E - decitic recamic rock with weak breccia texture, ~ 2% pyrite in meetrix + dissem - of cample at L 10400 N, 10250E whitish angular felsic rolcamic Fragments (~ 1mm - 3 cm) (-75%) sup- parted in black fine-grained	LOCATION & DESCRIPTION SULPHIDES TYPE - plev. 4440', an south side '10% grab of west flowing drainage in central BALL 5 claim, greenist grey ducitie(2) volcanic fragments (-5-38 cm) supported in very fine grained synite matrix with argitlite mud. - Neart sample on south BALL -2% grat CE. grid, LIOZON, ~ 10125E - decettic releanic rock with weak breecia texture, ~2% pyrite in meetrix + dissem - de sample at L 10400 N, 10250E - grab whitish angular folgic roleanic fragments (~ 1mm - 3 cm) (~75%) sup- ported in black fine-grained	LOCATION & DESCRIPTION SULPHIDES TYPE WIDTH - plan 4440', on south side '10% grab - d west flowing drainage in central BALL S claim, greenish gruy ducitie(s) volconic frogments (-5-8 cm) supported in very fine grained pyrite matrix with argillite much. - Noort sample on south BALL 2% grut - Ck. grid, L 10200 N, ~ 10/256 - deecitic recamic rock with weak breccia texture ~ 1% pyrite in metrix + dissem - de sample at L 10400 N, 10250 E - grab - whitish angular felsic volcanic fragments (~ 1mm - 3 cm) (~ 75%) sup- ported in black fine-grained	- floort sample on south BALL 2% grat - 29 - floort sample on south BALL 2% grat - 29 Ck. grid, L 10200 N, ~ 101256 - dacitic roleanic nock with aveal breecia texture, ~ 2% - graite in metrix + dissem - grante at L 10400 N, 10250 E - grat - 12 whitish angular felsic volcanic - floort (~ 1000 - 12) - 12 - 12 	LOCATION & DESCRIPTION UDCATION & DESCRIPTION SUPPLOES TYPE WIDTH GZAD GZAD - alev. 4440', an south stale 10% grab - 26 2 d, west flowing drainage in central - - 26 2 d, west flowing drainage in central - - 26 2 g, west flowing drainage in central - - - - BALL S claind, greenish grup ducitic(2) - - - - volcanic fragments (-5-38 cm) supported - - - - in very fine-grained applite matrix - - - - - Noort sample on south ball - - - - - - Noort sample on south ball -	LOCATION & DESCRIPTION SUPPOSES TYPE WIDTH altal altal altal alta	LOCATION & DESCRIPTION SURPHOES TYPE WIDTH GRAD OR AT ORAL OR AT ORAL OR AT OR	LOCATION & DESCRIPTION SIGE TYPE WIDTH CALL OF AL OF A	LOCATION & DESCRIPTION LOCATION & DESCRIPTION SERPHOES TYPE WIDTH UN	LOCATION & DESCRIPTION LOCATION & DESCRIPTION SULPHORE TYPE WIDTH OBAL ORAL ORAL ORAL ORAL ORAL ORAL ORAL OR

32283 -elev. 4120 main S.E. flowing creek -5% DJH. 1 116 24 11 grach 2 0.1 15 in sunt third of BALL 9 chaim. Wh. amygdaloidal andosite pillows with interstitial fine-ga- pquite; in contact with black mailites G = GEOCHEM A = ASSAY

PROPERTY BALL CREEK.

ROCK SAMPLE REPORT

N.T.S. 104 G/8 DATE July 21/91 PROJECT 289.

					1	·			T		+	<u></u>
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	GZAD Ca	G⊿∧□ ₽6	GZAD	G⊿∧□ <i>As</i>	GZAC SG	G⊿∧□ <i>Aq</i>	G⊿∧□ Au	SAMPLED BY
132284	eler. 4000' on main S.E. Having	~ 2%	gras.		24	Z	76	7	9	0.2	1	DJH.
	creek on eastern third of BALL 9.		····									
	dark preserist andaloidal sillowed											
	dark greenist amplaloidal pillowed anderites with dissem. + fine											·),
	veinlets of pyrite as well as											
	pyrite interstitial to pillows,		-									
132285	elev. 6850 on west side of gently	2%	Theat		18	40	108	101	8	0.6	11	DJH.
	slope, central BALL 13 claim.											
	Floot sample of greenisch grey andesit	e			 							
	preceia furth with sub-angular to						-					
e See	sub-rounded fragments (~ 1mm - 10mm											
	well commented, with coarse (~2mm)	1			、							
	pyrite grains interstial to rock											:
	fragments.											
	0 /											
	· · · · · · · · · · · · · · · · · · ·											
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PROPERTY BALL CREEK

N.T.S. 104 G/8 DATE July 25/91 PROJECT # 289

ROCK SAMPLE REPORT

	·							•••					
MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	width					G		G	SAMPLE	
·						an	P5	Fr	As	86	An	An	~~~~
32303	L 7200N, 9890 E on S. Grid, BallCh	~2-5%	composite		74	6	58D	67	/0	Ang 0.6	6	DJH.	
	Wack fine-annined well indurated									 			
	usell hedded (10257 /35° w) angillites												
-	with massive purite lenses in												
· · ·	well hedded ([025] /35° w) angillites with massive pyrite lenses up to ~ 5 cm thick up to lun long. this of contains pyritic lenses												
	this old contains purific lenses												
	overy 20 to 30 cm of bedding												
· · · ·	thickness of agillite and						-						
	every 20 to 30 cm of bedding thickness of agillite and overlies a lode of calcite replaced, recrystalized belevnite which constitute i Sello of soch in agillite matrix. (no fossiliterozes beds compled)												
	replaced recrystalized belennite	20					-						
	which constitute i se's & rock	ć										·	
	in angillite matrix.										3.		
· · ·	(no fossiliterozes beds numpled	2		 									
					,								
												· · · · ·	
· · · · · · · · · · · · · · · · · · ·													
		-	·									· ·	
		-								1			
				1		۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	= GEOCH	I IFM	A = ASS/	ι \Υ	J	4	

in the

PROPERTY BALL CREEK.

N.T.S. 1046/8 Tuly 26/91 DATE ----PROJEC1

ROCK SAMPLE REPORT

MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH			G	G∏ ∧□	G 🗆 A 🗆	G	G A	SAMPLE
			· · · · · · · · · · · · · · · · · · ·			P5				10.5	An	B1
32304	-elev. 4670' on s. side of rock	10-209	grass	-	22	5	72	38	4	0.5	-/	D.J.H.
	gully ~ 75-100 m S of line 6800 N,	-	12									
	gully, ~ 75-100 m S & line 6800 N, ~ 50-75 m upslop2 (E) of line 9700E	ł										
	10 m S of Eric Grill's sample											
	131210 -											
	- sample of rusty buff-orange											
	- sample of rusty buff-orange weathered andesite (?) or davite (!)											-
	volcanic; appears locally brecciat	ad,				,						
	with up to 10% - 20% purite veinler	s,						·				
	volcanic; appears locally preciat with up to 10% - 20% prite veinler irregular makses and as matrix											
	- pyrite is V- fine - grained with									,		
	a dull greenish tinge.											
	- the volcanic rock is in				•							
	fault contact with black				,							
	bedded, pyritic (disseminated + as renses) angillite. The contact	•										
	as lenses agillite. The contact									ļ	· · ·	
×	is at 6000 / 25° E with sheared	1										×
	angillites underlying the volcanic	0.					•					
~	10 m W (downslope) the angillit	e										
-	argillites underlying the volcanic 10 m W (downslope) the agillit strike [woo], dipping 80° E											
·····												

1.50

PROPERTY BALL CREEK.

N.T.S. 104 G/S DATE July 27/91.

ROCK SAMPLE REPORT

PROJECT_#289

			YS	the second s		1		P	1			1
MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	міртн	G A	G⊡∧⊡ PS	G A	G A A	G A D	GOAD	a Au	SAMPLED BY
32305	from L 1000 E, 11600 N, 138 m,	2-5%	compy		30		114	8	2	Az 0.3		DIH
	tourardes [290]. composite anab		compy grat fleat					0				
	towards [290]; composite grab sample of felsenmere float of sunty black argillites and dack greenish andesite (tuff?) with ~ 2-5% pyrite (dissem)					1					<u>}</u>	
	sunty black argillites and dask											
	greenish andesite (tutf?)					,						
	with - 2-5% pyrite (dissem)											
			grab.									
32306	11830 N, 9490 E; ferricrete	tr	2rab- comp.		26	4	45	24	4	0.3	2	DJH.
	Ic up to ~ 0.7 m thick, sub horizontal: limonite cemented bleached anderite(1)			ļ							 	-
	sub horizontal. limonite					ļ			 			
	cemented bleached anderite (1))	• •	· · · · · · · · · · · · · · · · · · ·								
	on felsic volcamic (dacife?).											
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				•				N.	т.s. <u>h</u>	46/8	3W	
	PROPERTY Ball Creek	CK SA	MPLE I	REPOR	 ۲		-	D	ATE J	uly 2 28	8/91 9	
MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ			G□∧□ P5	G A			G	G A	SAMPLED BY
8164/6	Fine grained Green Andecite (Tuff) with trace emounts of sulfides (pyrile?)	trace	outerop	Grab	23	2	1/6		4	43 .4	2	K
81647	fine grained green Anderite Vecuniar with plets of Sulfites (pyrite 3)	trace	outerop	Grap	47	2	82	2	2	.1	3	R
	l pyrite 3					· · · · · · ·			· · · · · · · · · · · · · · · · · · ·			
									•			
	۰	-							·			
		-				 		· · · · · · · · · · · · · · · · · · ·				

N.T.S.	104	G/8	
	Jul	1 28/9	*/
PROJE	ст	289	
GOADGO			SAN

PROPERTY	BALL	CREEK

ROCK SAMPLE REPORT APLEC % MPLE NO. TYPE WIDTH LOCATION & DESCRIPTION SULPHIDES Zh ΒY Cu PS 85 Ar - elev. 4620' on the west of S.E. grab tr DJH 32307 5 4 36 6 2 flowing creek, N20-30 m N. of projected Ball 9+10 dawn line. 1 weak limonite stained weathered, ~ 50% angular nhyolite fragments ~ Imm -7 (cm) supported in dark grey to black, fine-gr. siliceous matrix - elev. 4100' on Siv. side of SE flowing 2-5% of chip oreck, where trib. from NE meets 32308 _30 3 DJI 55 22 334 46 0.8 14 neek, approx. 1150 m SW of main LCP for BALL 9 \$ 10. Sample is fine - keddled at contact of at [080] /20°N, along angillites limonitic - Sample andesites (underneath , and abarox. 5 cm

G = GEOCHEM A = ASSAY

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PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. 104 G/8 DATE July 28/91 PROJECT KALL CK. # 289.

G] G 🗆 🗚 🗋		1
			SAMPLED
56	A3_	An	BY
2	0.1	1	DJH.
		· ·	
2	0.2	1	DJM.
	,		
5	0.3	4	DJH.
	1		
-			
	1		
1	1		1
	2-	2 0.2	2 0.2 1

PROPERTY BALL CK.

ROCK SAMPLE REPORT

N.T.S. 104 G 8 DATE July 28/91 PROJECT 289

SAMPLED % AMPLE NO. LOCATION & DESCRIPTION ТҮРЕ WIDTH SULPHIDES 8 Y Cu Pb 五 86 Au As Ag - 50 in south of 1323/1 (see ~2% locat" descript")on SW. side of Ck. fine-grained, dark greenish grey anderste; setting orange/brown limonite weathered - ~2% v. fine evenly dissen. pyrite throughout. -2% ofc grab 132312 DJH. ·----`_ 2 76 3 28 12 2 0.2 132313 50 m south of 132312 (are locat" 5-10% grab descript") on NE side of SE flowing neek: gossanous rusty ander te(?) - dark greenish grey pyritic rock, with up to ~ 10% pyrite, disseminated and as massive -4 7 DJH. 28 69 24 0.3 1 soels

k.eas

PROPERTY BALL CREEK

N.T.S. 104 G/8 DATE July 29/91 PROJECT # 289

ROCK SAMPLE REPORT SAMPLED % WIDTH MPLE NO. TYPE LOCATION & DESCRIPTION Ag 0.1 BΥ SULPHIDES Cu P5 Fr As 55 North grid (Ball Ck.) L 19200 N, - 5 108 15 E, float sample from small boulder train of bleached white/buft volcanic rock (orig-andesite?) brecciated (~. 5->~6 cm fragments) with rusty limonitic natrix. (possible ferricreta?) float SJH. 4 4 2 32314 3 65 12

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. 104 G/8 DATE July 311 191 PROJECT

AMPLE NO.	LOCATION & DESCRIPTION	%	ТҮРЕ	WIDTH	G⊿∧□			GZAD	G⊿∧□	GZ A□	GØ∧□	SAMPLED
		SULPHIDES			Cu	P6	Zn	As	56	Ag	Au.	BY
32315	elev. 6250°; approx. 1000 m NAW	18-5%	float grab		14	6	79	2	2	0.2	4	DTH
	of the SE corner of BALL 2 claim		-									
	of the SE corner of BALL 2 claim on west side of soddle.											
	- Hout sample from strong orang	e/			· · ·							
	brown, rusty timonite weathered											
	zone of talus, approx. 20 m acros	2										
	slope and 50 m down slope.	<u>.</u>										
•••	- rick is dark grounish, fine-med.						и 					
	grain andesite; locally altered			ļ								
	to greyish (silicified?) rock											
	(or possibly unaltered dacite).		· · ·							, <u>, , , , , , , , , , , , , , , , , , </u>		
	up to ~ 5% v. fine go dissem.											
	pyrite, and py- veinlets (~1mm)											
323/6	elan 5540', approx 1150 m NW from	2-5%	float		18	4	86	2	4	0.3	3	DTH.
	st corner of BALL 2 claim, between	ا										
	tas W. flowing creeks float sample								· · ·			
· · · ·	of black calcareous angillite high deformed, folded, sheared with mins											
	(~5-10's) white calcite veinlets and											
	2-5% disseminated, and "chippy" le	ses										
	& synite Along trend of structs											
	break (fault) at [340]											

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PROPERTY BALL CREEK.

ROCK SAMPLE REPORT

N.T.S. 104 G/8 DATE July 31/91 PROJECT # 289

SAMPLED SAMPLE NO. LOCATION & DESCRIPTION TYPE WIDTH SULPHIDES ВY Cu Pb Zn 56 Ag_ As Au Float elev. 5150°, approx 900 m WNW 10% 132317 20 19 81 69 12 0.8 DJH 13 from SE corner of BALL 2 claim float sample of pyritic andesite breccia; fragments are variably sized from - 5 cm of mainly black graphitic angillite to larger aub-angular fragments of dark green (wk- silicified?) andesitic fragments. Breccia is fragment supported (~ 80-90%) with matrix simming the fragments matrix of grey carbonate, massive synite locally botrypidal, frambeidal, white quartz Sample consists of mostly matrix material with pyritic andesite - Floot boulder Frage. vary from ~ 10 to ~ 60 cm dia ~ approx 2-5% of talus material is probably from fault zone (at [315]?) between mod. dipping homfelaed sectiments + pillowed flows, and steep E dipping black, laminated angillites

G = GEOCHEM A = ASSAY

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S/	04 6/8
DATE J	uly 31/91
PROJECT_	# 289.

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AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	GZAD Cu	the second s						SAMPLEI BY
27218	play 6050° a chang pill		grab		9	<u>Рв</u> З	Zn 11	<u>As</u> 2	<u>56</u> 2	Ag 0.1	An 2	DJH.
DICAC	elev. 6050° on steep clift	1	9100		(~	~	0.1	<u> </u>	
	approx 650 m NW of SE count											· · ·
	J BALL 2 claim. local outcrop is of well defined pillow lavos			1						· · · ·		
	is of well defined pillow lavos											l
	(tops up) with interlayered silts	stone				 					 	
	beds (up to 20-30 m thick)											
	sample of greyish quartz with								-			
	black fragments (50 %) and inter						-					·
	growths, interstitial to andesite											
	pillows											
323/9	elev. 5700' approx- 200 m W of	tr.	grab		4	19	17	13	2	0.1	4	DJH.
	PLB 4 claim, on the N side of a											
	saddle; % sample of orange											
	weathered poorly sorted conglomerat	1										
	with wants waske matrix larger											
	with quarte wacke matrix. larger fragments generally heterolothic	·										
	-probably overlies lower Jurasoric	- 										
	volcs + seds.											
	VOCA + slas:	-										
32320	- some location on 132319		grab	-	11	52	76	104	9	0,2	16.1	DJH.
2~1~4	- same location as 132319 soil sample of rect/orange talus fines	-	*									
	fines											
		1	1	1	û	G	I GEOCH	EM	A = ASS/	۱ <u>ــــــــــــــــــــــــــــــــــــ</u>	I	ü

PROPERTY BALL CREEK

N.T.S. 104 G/8 W DATE AUG. 27/41 PROJECT # 289

ROCK SAMPLE REPORT

AMPLE NO.	LOCATION & DESCRIPTION	%	ТҮРЕ	WIDTH		GZAD		G 🛛 A 🗋	G⊿∧□	G⊿́∧□	gℤ∧□	SAMPLED
		SULPHIDES			Cu	P6	Zn	As	56	Aq	Au	BY
32236	elev. 5820', on sidge north	tr	chip	4m.	7	7	80	2	2	0.1	5	DTH
	of 1990 north fly camp - weak (4											
	pyritic (traci) dark green, chloris	fic				· ·						
· ·	alt'd (wk) amyg amygdaleidal				-							
LE MARMAN	andesite (infilled with calcite)			·								
· · · · · · · · · · · · · · · · · · ·	chlorite), pyrite dissem and as											
	hairline Fractures.											
32237	elev. 5700' below 132236 on	tr.	chip	2m	8	8	61	11	2	0.1	4	DJH.
	same N. facing ridge highly											
. <u>.</u>	weathered dark greenish andesite,											
	susty brown/ brange weathered									,		
132238		tr-1%	chip	1.5m	14	6	153	5	2	0.1	2	DJH
	on sul facing slape; trace - 1%											
	pyrite in orange/brn weathered				•							
	amygdaloidal andesite weak		 									
	pillowed, buff alt'd seds to not	K										
132239	30 m S of 132239 ; same	5-10%	chip	~1m	19	5	68	4	2	0.1	4	DJH.
	rock type, up to 5-10%		· · · · · · · · · · · · · · · · · · ·									· · · · · · · · · · · · · · · · · · ·
	pyrite dissom. thru-out also											
	V. fine-grained + massive veinlets	· · · · ·										
	+ as matrix (?) around amygdul	es	· · · · · · · · · · · · · · · · · · ·					•				
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				······································		G	= GEOCH	EM A	- ASSA	Υ		

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. 104 G/8
DATE AUG. 27/91
PROJECT # 289.

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MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	GZAL	GØALI P6	GLAL Zn	G A L	G⊿∧∟ S¥	g⊿∧□ Ag	GUAL Aü	SAMPLED BY
32240	elev. 5420°, dark greenish to	1-2%	chip	0.6m		4	118		2	0.1	4	DJH
	grey amygdaloidal andesite		1									
	(calcite/chlorite filled), very fine											
	dust-like dissem. syrite thru-out	4									·	
82241		5-10%	chio	Im	19	6	73	2	2	0.1	.)	DTH
	neak on SU. facing ridge north of		<u></u>			<u> </u>	<u> </u>					
	1940 north Fly camp. gossanous	-			1			· · · · ·				
	weathered dark greenish, crudely	-				· ·						
	pillowed andesites, weak silicitied+											
	contomatized, 5-10% v. fine pyrite											
	Hispushout ~ 5% calife any adults.											
32242	About sample 50 m S. J. LCP in	5-10%	flost 6		15	6	20	2	2	0.1	4	DJH
	Jalus, light grey silica + sericit	e			· ·							
	altered (wk) with 5-10% V. fine											
	dissem. pyrite, + thin pyrite veinlet.	5										
	Voriginal rock was vole, prob. anderife)										
32243	Voriginal rock was vole, prob. anderite, elev. 5500 (bearing from creek junetic	1-24	float		10	5	47	8	2	0.1	2	DJH
	rear old camp to have is [012] }					-						·
	arcontsh arey amygdaloidal andesit	AC										
	arcentsh grey amygdaloidal andes & volc., v. fine - grained greenis	a										
	grey purite along tractures											
· · · · · · · · · · · · · · · · · · ·										-		
						~	0500	HTTN A	A ACC	A.V.		

G = GEOCHEM A - ASSAY

NORANDA	EXPLO	DRATION	COMPANY,	LIMITED
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	NORANDA	EXPLOF	ATION CO	MPANY,	LIMITED)		N.	т.s	04	6/8	W
	PROPERTY BALL CREEK	. ·		•			-	DA		ug.	G 8 27/9/	/
	ROC	CK SA	MPLE P	REPOR				PF	ROJECT	# 28	9	
MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES		WIDTH	G⊿∧□ Cu	G⊿ ∧□ <i>Pb</i>	G⊿∧□ Z∽	G⊿∧□ <i>As</i>	G⊿A□ S6	6⊿ ∧ □ <i>Ag</i>	GDAD Au	BY .
32244	30 m downslepe from last sample, gossanous patch of queyoch any golaloidal andesi othong limmite weathered, ~2- 5% fine dissem. pyrite.	2-5%	float		11	5	26	2	2	0.1	1	DJH
	sample, gonsanous patch											
	of aneyad any golalo idal andesi	te						· · · ·				
	Sta fine diasem. pointe.	-										· · · · · · · · · · · · · · · · · · ·
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G = GEOCHEM A - ASSAY

	PROPERTY Ball CK			·			_	D	ATE	Aug.	28/9	L
	RO	CK SA	MPLE	REPOR	۲۲					280	-	
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	түре	WIDTH	G A	G⊿A□ <i>P6</i>	G⊿A□ Zn	g⊿a⊡ As	Gℤ A□ <i>S€</i>		GØA[] An	SAMPLEC BY
124684	elen. 4550 ft refer to map. Basaltic flow	Tr	0/6	grab			104		2	0.1	12	10.20.
	Lt.green w/ mar Hem. Staining.	-			· · · · · · · · · · · · · · · · · · ·							
124685	elev. 4770ff refer to map Allered basalt, mod.				24	7	117	5	2	0.1	1	19.10
	Here. Staining, Slight carb. alt.			····					 			
· · · · · · · · · · · · · · · · · · ·									· · ·			
			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·							
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G = GEOCHEM A = ASSAY

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PROPERTY BALL CREEK

N.T.S. 104 G/8 W. DATE AUG. 28/91 PROJECT: # 289

ROCK SAMPLE REPORT

SAMPLED BY	g 🛛 A 🗆 Au	GØ∧□	Gℤ∧□ <i>S6</i>		G⊿A□ Zn	GEAD Pb	G[2]∧[] Cu	width	TYPE	% SULPHIDES	LOCATION & DESCRIPTION	AMPLE NO.
DITH	2	Ag 0.1	2	<u>As</u> 13	59	2	6	200	luip	5%	elev. 4350' hear south end of	132245
									/		property; 5 m felow top of	-
											Jossanous contact as alk grey	
	·										pillor lava (anderte) above	
					i					l'	- dk greenish vesicilar + amygde	
				· · · · ·							mdesite w. dissem. pyrite, concentr	
											eround vesicles	
DJH	4	0.2	2	11	128	12	33	1 m	chip	2-5%	elev. 4300', below 4350', dk	132246
									1		grey to black, most-strong silic.	
				·							siltstone w2-5% fike diss.	
						·					+ layened pyrite. (Appears to be	
											3-5m of fine seds between puritie	
					· · ·						molesite prilowed (locally) Hows)	·
D JH	2	0,1	2	27	10	4	15	10m	, chip	,10-20,	10 m south, + stratigraph. hele	132247
											132246; synific, mod. chloritic,	
										,	weak silic fied, pillowed andesit	
	ļ				ļ						Flow; massive middy grey-green	
			_ <u></u>							ws	V. fine-gr. pyrite interatitial to pill	
DJH	2	0.2	2	17	37	7	/0	2m	chip	5%	(monthis) elev. 4250' below 132247.	132248
			· · · ·								pyritic vesicular lark green	
		L		· ·							anderite locally bleached to	
	L										black Mr stain (~102)	
	2		2 		37 = GEOCH	7	/0	2m	composite chip	5%	pyritic vesicular dark green anderite rocally bleached to butt colour (lay alt'd) - local	132248

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. <u>104 G/8</u> DATE <u>AUG. 28/9/</u> PROJECT<u># 289</u>

MPLE NO.	LOCATION & DESCRIPTION	%	ТҮРЕ	width	G 🛛 ∧ 🗌	G⊿∧□	GØAD	G∅∧□	GØ ∧□	GZAD	GǾ∧□	SAMPLED
		SULPHIDES	í .	WIDTH	Ca	Pb	Zn	As	56	Ag	Au	₿Y .́
32249	elev. 4100, pupitic & fine-an-	10%	composite	n Sa	12	5	55	7	2	Ag 0.1	3	DJH
	elev. 4100°, pyritic v. tine-gr. dark green anderitic pillow flow, strong rusty limonite weathered.		grab									
	Cl f f f f f f f f f f f f f f f f f f f											· · ·
	+low strong rusty amonite			·								
	weathing.						·····•					
												·
			· · ·									
132250												· · ·
<u> </u>	/											
	· · · · · · · · · · · · · · · · · · ·								-			
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	PROPERTY BALL CALER	(Su	AU SUSE	T :	B4-L 8)	-	N. Di	T.S. <u>/0</u> 	246/8 *Aue.	200/9)	
	ROO	CK SA	MPLE F	REPOF	T					28		
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	G A D Cu	GℤA□ <i>Pb</i>	G⊿A□ Zn	GØAD As	GZAD 56		G⊿∧□ Au	SAMPLEC BY
	see 1:10,000 location map -	-Y2	outchop	GRAB	43	5	78	36	2	0.2	4	T.E.
135397	ANDESITE											
	F.g. medium quees (fresh) with gossoners											
	svorges, purple + black pervasue m/chl-mongenere-			s.								
	Fe exides ; W/py (2 1/2 20 dissen.)											
35398	SILTSTONE (?)	2-3	outcoop	Genz	10	U	41	10	2	0.1	3	TE.
70	F.g., medun grey ; weathers gossmus.		0.000	0476	10	<u> </u>	_ <u>/ '</u>	70	~			
	proles, red, aronge i/sc-cley-Fe oxides											
·.	(mothing -limente); w/ce im/as as = 2-3%		· · · · · · ·				· · · ·				+	
10:01	firely dissens in remnest maltered petches.									,		
NE ougung S												
35399	SILTSTONE (?)	-5	ownor	64403	.11	2	48	18	2	0.2	3	TIE.
	Fig., med. blue gray; m/py-sc				<u> </u>							
	i/Fe oxides; py. = 5 % vissen.									 		
35400	SILTSTONE					ļ			ļ		ļ	
	Fig, medunique, well betded @ 1-4 cm	<u>e3</u>	outcop	GEAB	44	15	22	18	2	0.5	/	T.E.
	wide; w-m/py is 3% file dissen and 1-2m			·							<u> </u>	
	venlet. // to bedding weather gorson purples +					ļ						
, 	eds.				_							
					ļ							
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	ļ				l					

G = GEOCHEM A = ASSAY

								N.	T.S	1046/1	BW	
	PROPERTY BALL CREEK (South	SURET	; BALL	- 8)			-	· D/		150. Ave	- 28/91	1
			MPLE		RT							
MPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	WIDTH	GZAD Cu	G⊿ A□ <i>P</i> 6	G₫∧□ Zn	G₫∧□			G₫∧□	SAMPLEC BY
	- see 1110,000 map shut -											
32892		-2-3	OUTEROP	GRAB	88	19	874	30	2	1.9	45	T.E.
	F.g. medum grey ; governors weatherd					· · ·						
	appendic of orages, puples, and grays - thinky								 		· · · ·	
	hedded (~1-2cm w.te). (5) 142°/40° NE.	·						· ·				·
	W/SC; m/py (=2-3 20 dissem + fracture			· ·								
· · · · · · · · · · · · · · · · · · ·	contringo.), i/ Fe oxides											· ·
32.813	ALTERED SEDIMENT (?) (SILTSTONE?)	5-10	outrop	GRAB	21	5	84	21	2	0,1	3	T.E.
	F.y., modern blue grey ; i/ Fe oxider - py;				-~							
· · · · · · · · · · · · · · · · · · ·	By 62 = 5-10 20 disson ; w-m/sc											
•	, , , , , , , , , , , , , , , , , , , ,								 	ļ		
32894	ANDESITE PILLOW LANAS =	5-0	Сигр	10m	26	4	137	4	2	0.1	3	T.E.
	Fig, nature grey when frech ; filled									<u> </u>		
h	1- Som anygolden the clay-readeler, i/SC-py-		· · · · · · · · · · · · · · · · · · ·									
· · · · ·	Fe ovide ; w/ day. ; py az = 3% disam.							 				l:
	to >15% more infilling. ; w/ ce-si-zeolety.											
				-	_				<u> </u>			
<u></u>		-			-						<u> </u>	
											+	
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Bail CK PROPERTY_

N.T.S. _

DATE Aug. 28/91

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ROCK SAMPLE REPORT

PROJECT 289

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH			GZAD	Gℤ ∧□	G 🛛 A 🗆	G₽́∧□	GØAD	SAMPLED BY
12/1/201			andra (e da alternativa y sality) (e teleponetic politika apr. e		Cu	1	Zn	As	56	Ag	Au	
04686	elev. 4340 ft refer to map	1-3		· · ·	19	6	67	2	2	0.1		E.W.
	Green, med. grained Andesite											
- - 	w/mod, chlorite, Herm alt.		-						 			
	1-3% fine to very fine diss.	-										
	Pyrite. Local Sericite alt,									· ·		• •
	Pillow Javia structure, gas				ļ							
	Vescicles											
·												
124687	elev. 4315 ft refer to map	1-3			21	2	30	2	2	0.1	/	N.D.
	Similar to sAmple 124686									ł		
	w/ exception of intense											
	Hem/Lim. Staining and		·· .							~		
· · · · ·	Courser pyrite .											
•												
					1							· · · ·
124688	elev. 4220 ft. refer to map	~/			22	5	62	2	2	0.1	4	10.D
· · · · · · · · · · · · · · · · · · ·	Green f.g. Andesite N/		,									
					ļ							
	mod Hem/Lim. Staining, Slightly Silicified, 2190 f.g. diss. Pyr.											· ·
							·			[
			· · · · • • • • · · · · · · · · · · · ·	-								
· · · · · · · · · · · · · · · · · · ·		·										
	I			- L	и	G	= GEOCI	IEM	A ASSA	• \Y	. <u></u>	

							N.T.S					
	PROPERTY Ball ck				DATE Ang . 28/91							
	ROO	CK SA	MPLE	REPOR			-			28		
AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G⊿A□ Cn	G⊿ ∧□ <i>P6</i>	g⊿ ∧□ Zn	g⊿ ∧□ <i>As</i>		GZAD Ag	G⊿ A□ Au	SAMPLED BY
124689	elev. 4200 ft. refer to map		olc	Carat			81	2	2		4	E.w.
	Very Similar to 124688											
						-						· · · ·
24690	Green Amygdo: dal Anstegite		ok	Grab	19	3	80	2	2	0.1	2	E. w .
	w/ carb. filled vessicles, slight silicification, mod.											
· · · ·	Hem/lim. alt. & alt.											
	f.g. Liss. Pyr.		· · · · ·									
· · · ·									· · · ·		<u> </u>	
124691	green fig. Andesite w/	H-5	0/2	Grab	/3	2	43	2	2	0.1	1	E.w.
	intense carb, him alt.		· ·		, ,							
	Local Sericite Alt. 2 4-5%											
	f.g. crumbly Pyrite.										ļ	
					 							· · · · · · · · · · · · · · · · · · ·
				•		-		-		-		
· · · · ·		**										
····	· · · · · · · · · · · · · · · · · · ·											
·····					I				Δ = Δ99		<u> </u>	<u> </u>

								. N	.T.S					
	PROPERTY Ball ck							DATE Aug 28/21						
	ROCK SAMPLE REPORT						PROJECT 289							
SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	б₫л□ <i>Си</i>	GIAD P6	GZAD Zn	g⊿a⊡ As	G∅ A□ 56	GØAO Ag	G A L	SAMPLED BY		
124692										3				
• • • • • • • • • • • • • • • • • • •	Circen f.g. Amygdollad	1	OK	Grab	28	4	71	2	2	0.1	1	D.D.		
	Andessile w/ canb versick	· · · · · · · · · · · · · · · · · · ·									<u> </u>			
	fill. mod- intense sericit	L												
	& Hem. alt a 1% blebby	/								ļ				
	Pyrite.									ļ	<u></u>			
n 				<u>.</u>										
								ļ	ļ					
124693	elev. Hoooff refer to map.	5	O/C	Gray	5	2	70	22	Z	0.1	<u> / -</u>	EW_		
	Andesite - medgrn, f-medgr.;								<u> </u>			<u></u>		
· ·	high chl alt, mod-high sericall;									·				
· · · · · ·	Intense yellow-bon surc-Fe staining								<u> </u>		<u>.</u>			
	on surface; fdisspy + sm privage	-									ļ			
	(to Zem) of massine py; Sample													
	taten at volcanies- and contact		 											
1711/011	O(D)		· · · · · ·	-			· · ·		· · ·	<u> </u>				
124694	Quartz-Py Vein - while space	10	- [17	11	10	4		12	2	0.1	 ; =	TSL/		
	qt2 ven 10-30 cm wide / 1.2mlong truncated by this shear; Columner/wys texture w/py coating open spaces; rome py weathered to bilk cley; Crn mod 31 alt and host	10	0/0	Eras	19	7	44	23	<u> </u>			JERIV		
	to uncated by this shear; Columner these	 					-				<u> </u>			
	lexture of py coating offen spaces;		<u></u>					· · · ·						
· · · · · · · · · · · · · · · · · · ·	some by weathered to bit cloy, ETh													
	<u>mu zi ul ano nost</u>		· · · · ·				.				<u> </u>			
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N.T.S. _____ PROPERTY Bill ck. DATE Aug. 28/9/ ROCK SAMPLE REPORT PROJECT 28 SAMPLED % SAMPLE NO. TYPE LOCATION & DESCRIPTION ΒY <u>Ag</u> 0.1 SULPHIDES 56 124695 elev. 3960ft, refertomap. 2 30 19 5 83 13 1 0/2 20m Lendicular Pyrite Pods in intensity Hern attered andesite with Argillaceons interbeds. yerrowish surface weathering. Pods extend with Strike for extend of ok

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NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. 104 G/8 W DATE AUG 29/91 PROJECT #289

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SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	GZAL Cu	GZALI Pb	GLAL Zn		GLAL SC	GZA .		SAMPLEC BY
	A									<u>Ag</u>	An.	D TIL
132250	- elev. 5960 in tales slope	5-10%	mas. Float		14	16	69	8	2	0.3	3	DJH
	in bowl, west + downslope of) (OAI									:
	N- Plateau below 21800 N. 110 50 E		. •									
	- lark arequise ink chlorific			* .								
	- elev. 5960' in taless slope in bowl, west + downslope of N- Plateaux, below 21800 N, 11050 E - dark greenish, wk chloritic anclesite volcamic, pyrite very f. gr. and as 1-2mm round grains											
	fina and ma 1-2 man paying aning		· · · ·			4 - A		1.				
	y - gre and											
132201	- elev. 6200° in talus, above .	- 5%	float.	~~ <u>~</u>	45	21	63	14	2	0.6	3	DJH.
122201	12 22 FA		gnort		- <u> </u> -			<u>• /</u>				
	176630		(
	- grey time - grained, mod. a liter	p15										
	andessitic, weakly resicular									, ,		
	V-fine dis pyrite + as											
	- grey fine-grained, mod. a Ticed andes Fric, weakly resicular V-fine dis pyrite + as K narrow rare foraet. Filling				•							
							-	-				
	8	· · · · · · · · · · · · · · · · · · ·			 		· · · ·					
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NORANDA EXPLORATION COMPANY, LIMITED

PROPERTY BALL CREEK

ROCK SAMPLE REPORT

N.T.S. <u>104 G/8</u> DATE <u>\$UG-13/91</u> PROJECT <u>#289</u>

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	ТҮРЕ	width	GIA D Cu	G⊿ ∧□ <i>РЬ</i>	GØAD Zn				1	SAMPLED BY
132340	-elev. 5530° - South Ball Ck.	2-3%	olc grab		<u>Cu</u> 42	7	77	<u>As</u> 19	56	Ag 0.3	<u>An</u> 5	DJH
12110		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- gras		10	<u> </u>			,	0.5	<u> </u>	2017
	area, E. of line 6600 N in			·	[
	SW flowing creek, N. side of			·······					· · ·			
<u> </u>	creek, grab of green andesite							 		· ·		
<u></u>	with ~2-3% V. fine-gr. pyrite					ļ		· · · ·	ļ	 		
	dissemin. thru-out, in small	<u> </u>										
	gossanous zone at sheared contac	7										
	with with black + white notfled											
	altered (peperitic?) sediments.		· ·									
	action (paparai) = prime in = i - pr	-										
132341	elev. 5420' (same creek as above)	tr.	chip	1.5m	30	13	97	5	2	0.1	3	DJH.
-	Fine-grained greyish to grey-gre											
	dacite fulf with 10% whitish											
	1-2 cm dia. spherical sports; trac	0										
	ey, magnetite						 		<u> </u>			
132342.		~2%	c/cgrab		31	2	49	4	2	0.1	4	DJH_
а. ¹	pyritic (-2%) rusty mange											
	reathoned oto I margine Bracking	d										· · · · · · · · · · · · · · · · · · ·
	weathered ofc of massive, fractur anolesite; fine-grained dark green		· · ·							·····		
132343	elev. 4200'- 25 m SW of creek;	~2%	Acard	-	17	34	100	74	2	0.3	34	DJH.
	elect to be a find of cruck		- 7247				100			<u> </u>		
	gossanous te of dark green under'	e	·····						·			
	(flow?); weakly anygdalordal; trace	2								· · · · ·		
	2% dissen. + tractil filled pupite	L				<u> </u>	- GEOCH	,,				

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APPENDIX VI

INSTRUMENTATION

INSTRUMENTATION

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MAGNETICS

The magnetics survey utilized EDA Omni4 magnetometers with readings corrected for diurnal drift by the use of a recording magnetic base station. The EDA system records the Total Magnetic Field with an accuracy of within 1 nT. Readings were taken at 12.5 m intervals along the survey lines.

HORIZONTAL LOOP ELECTROMAGNETIC SYSTEM

The HLEM survey used the Scintrex SE88 frequency EM system. This system is similar to conventional HLEM systems such as the MaxMin II except that the per-cent ratio response between a transmitted and a reference frequency as compared to the usual in-phase and out-phase components is measured. Three transmitted frequencies, 337 Hz., 1012 Hz., and 3037 Hz., were used with a reference frequency of 112 Hz. To maximize the signal level the ratio response is integrated over a time period (usually less than 20 seconds), depending upon local noise levels. Coil spacing between receiver and transmitter was kept at 100 m. with a station interval of 25 m. Readings were stored in the receiver and later dumped onto computer disc. Geological, Geochemical, and Geophysical Report on the BALL CREEK PROPERTY

October, 1991

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APPENDIX VII

STATEMENT OF COSTS

CLAIMS : BALL-1, BALL-2, DATES : JULY 1 TO OCTOBER 15, 1991 TYPE OF REPORT : GEOLOGICAL, GEOCHEMICAL 1) WAGES Rate per day : \$151.69 No. of days : 10 Dates : 01/01/91 to 10/15/91TOTAL \$ 1,516.90 FOOD, ACCOMMODATION, AND SUPPLIES 2) Rate per day : \$24.83 No. of days : 10 Dates : 07/01/91 to 10/15/91 248.30 TOTAL Ś TRANSPORTATION 3) Rate per day : \$231.29 No. of days : 10 Dates : 07/01/91 to 10/15/91TOTAL \$ 2,312.90 4) ANALYSES 10 soils for 28 element ICP & Au @ \$12.00 each 120.00 \$ 17 rocks \$15.00 each \$ 255.00 Ś 375.00 TOTAL 5) COST OF PREPARATION OF REPORT 250.00 Author \$ 125.00 Drafting \$ \$ 125.00 Typing 500.00 TOTAL Ś

TOTAL COST

\$ 4,953.10

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STATEMENT OF COSTS - BALL ONE GROUP

STATEMENT OF COSTS - BALL THREE GROUP

CLAIMS : BALL-3, BALL-4, BALL-5 DATES : JULY 1 TO OCTOBER 15, 1991 TYPE OF REPORT : GEOLOGICAL, GEOCHEMICAL . _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ 1) WAGES Rate per day : \$151.69 No. of days : 18 Dates : 01/01/91 to 10/15/91TOTAL \$ 2,730.42 2) FOOD, ACCOMMODATION, AND SUPPLIES Rate per day : \$24.83 No. of days : 18 Dates : 07/01/91 to 10/15/91\$ 446.94 TOTAL TRANSPORTATION 3) Rate per day : \$231.29 No. of days : 18 Dates : 07/01/91 to 10/15/91\$ 4,163.22 TOTAL ANALYSES 4) 185 soils for 28 element ICP & Au @ \$12.00 each \$ 2,220.00 25 rocks 77 \$15.00 each <u>\$ 375.00</u> \$ 2,595.00 TOTAL 5) COST OF PREPARATION OF REPORT Author Ś 250.00 Drafting \$ 125.00 Typing <u>\$</u> 125.00 TOTAL Ś 500.00 TOTAL COST

\$10,435.58

STATEMENT OF COSTS - PLB GROUP

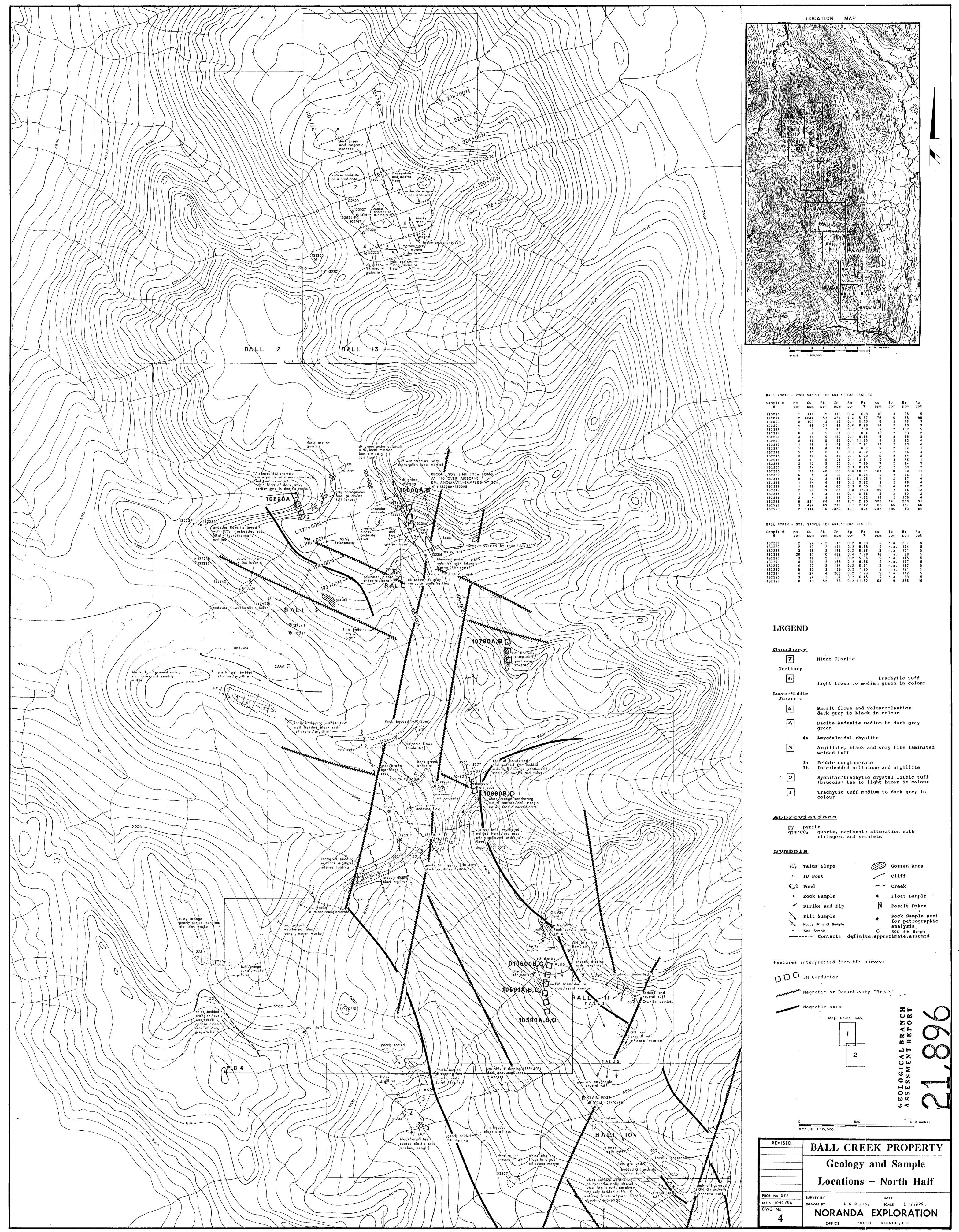
CLAIMS : BALL-9, BALL-10, BALL-11, PLB-4 DATES : JULY 1 TO OCTOBER 15, 1991 TYPE OF REPORT : GEOLOGICAL, GEOCHEMICAL 1) WAGES Rate per day : \$151.69 No. of days : 6 Dates : 01/01/91 to 10/15/91 S 910.14 TOTAL 2) FOOD, ACCOMMODATION, AND SUPPLIES Rate per day : \$24.83No. of days : 6 Dates : 07/01/91 to 10/15/91 148.98 TOTAL \$ 3) TRANSPORTATION Rate per day : \$231.29 No. of days : 6 Dates : 07/01/91 to 10/15/91 \$ 1,387.74 TOTAL 4) ANALYSES 1 soil for 28 element ICP & Au @ \$12.00 each Ş 12.00 \$15.00 each \$ 165.00 11 rocks S 177.00 TOTAL COST OF PREPARATION OF REPORT 5) Ş 250.00 Author \$ 125.00 Drafting \$ 125.00 Typing 500.00 S TOTAL

TOTAL COST

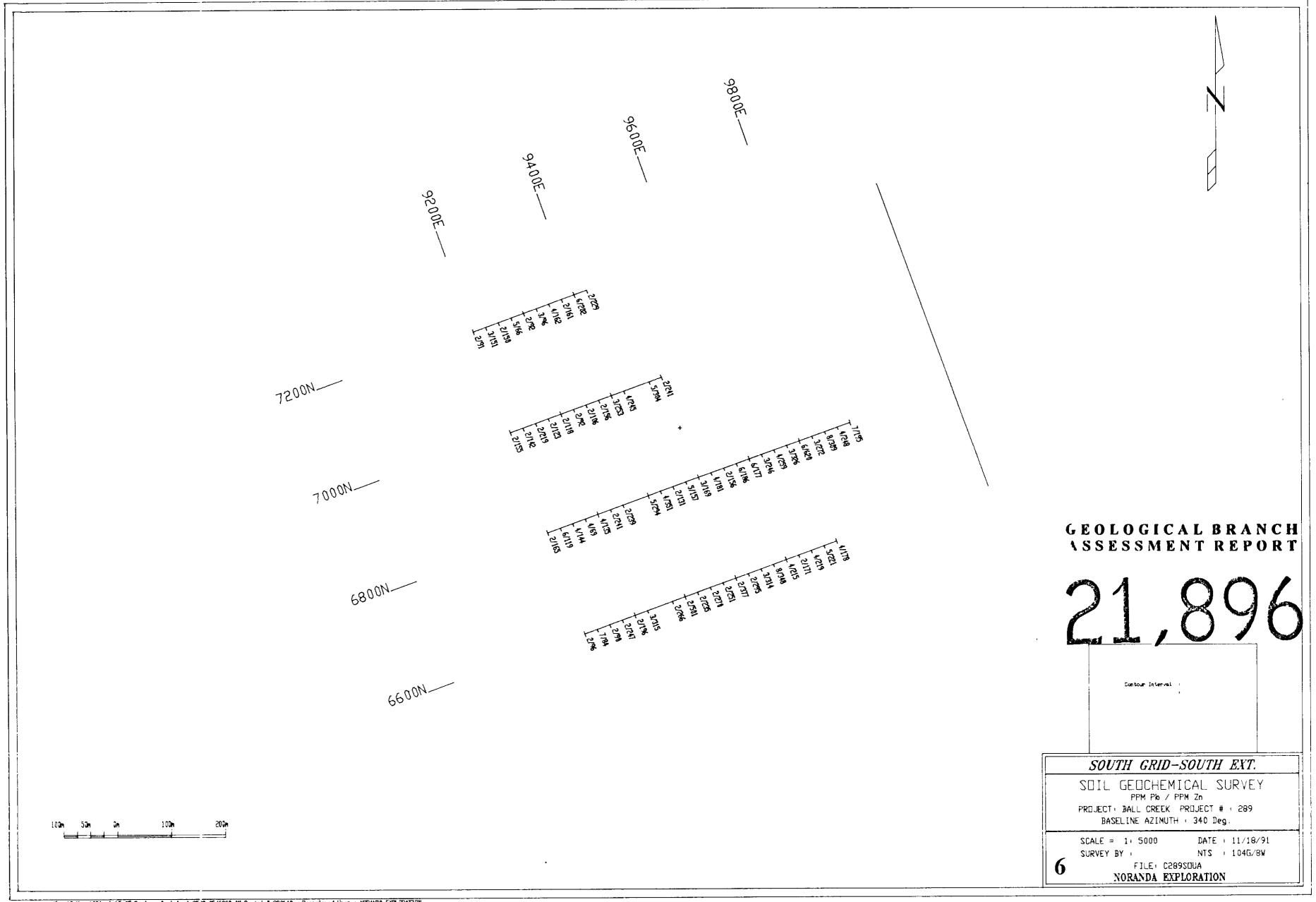
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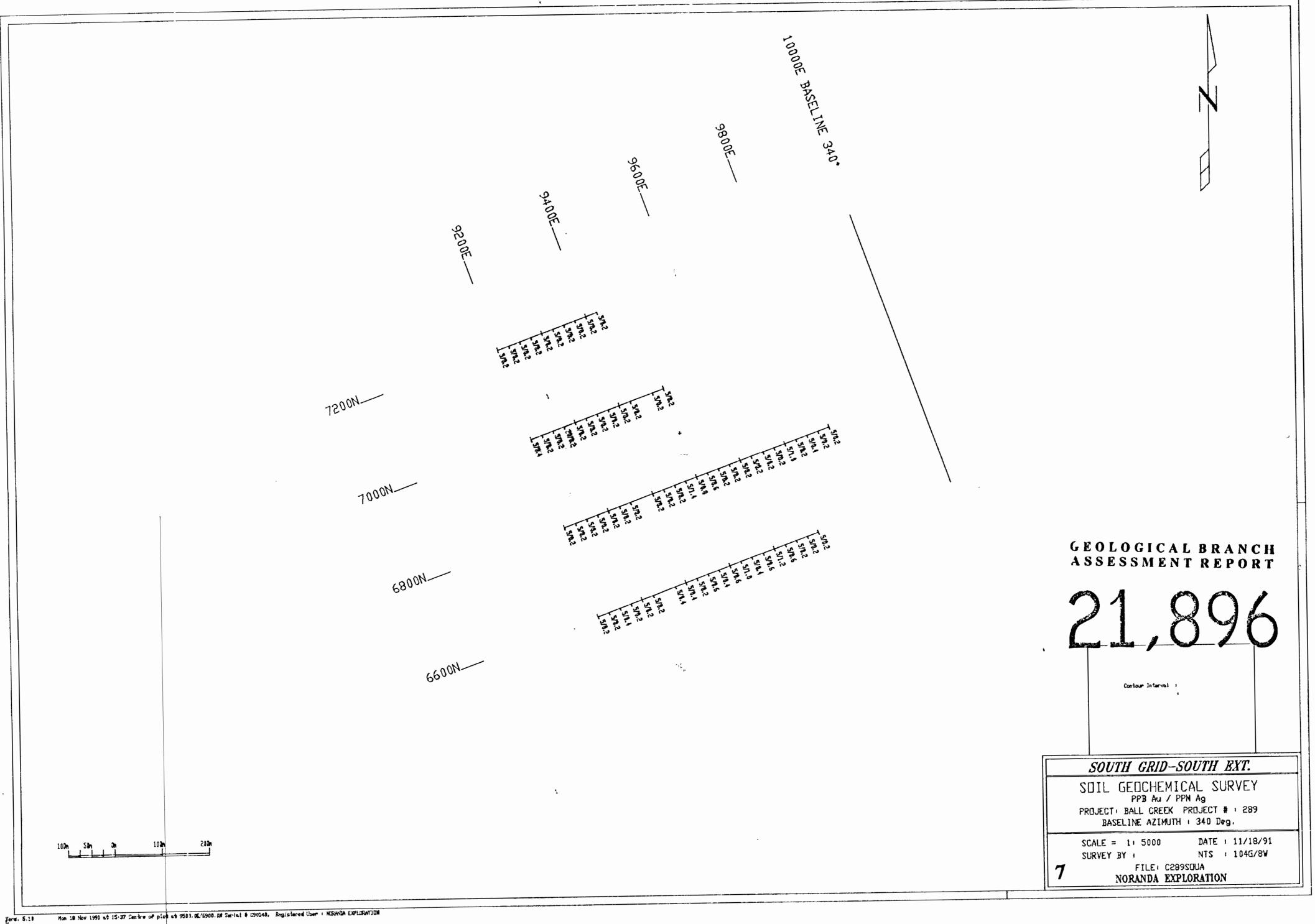
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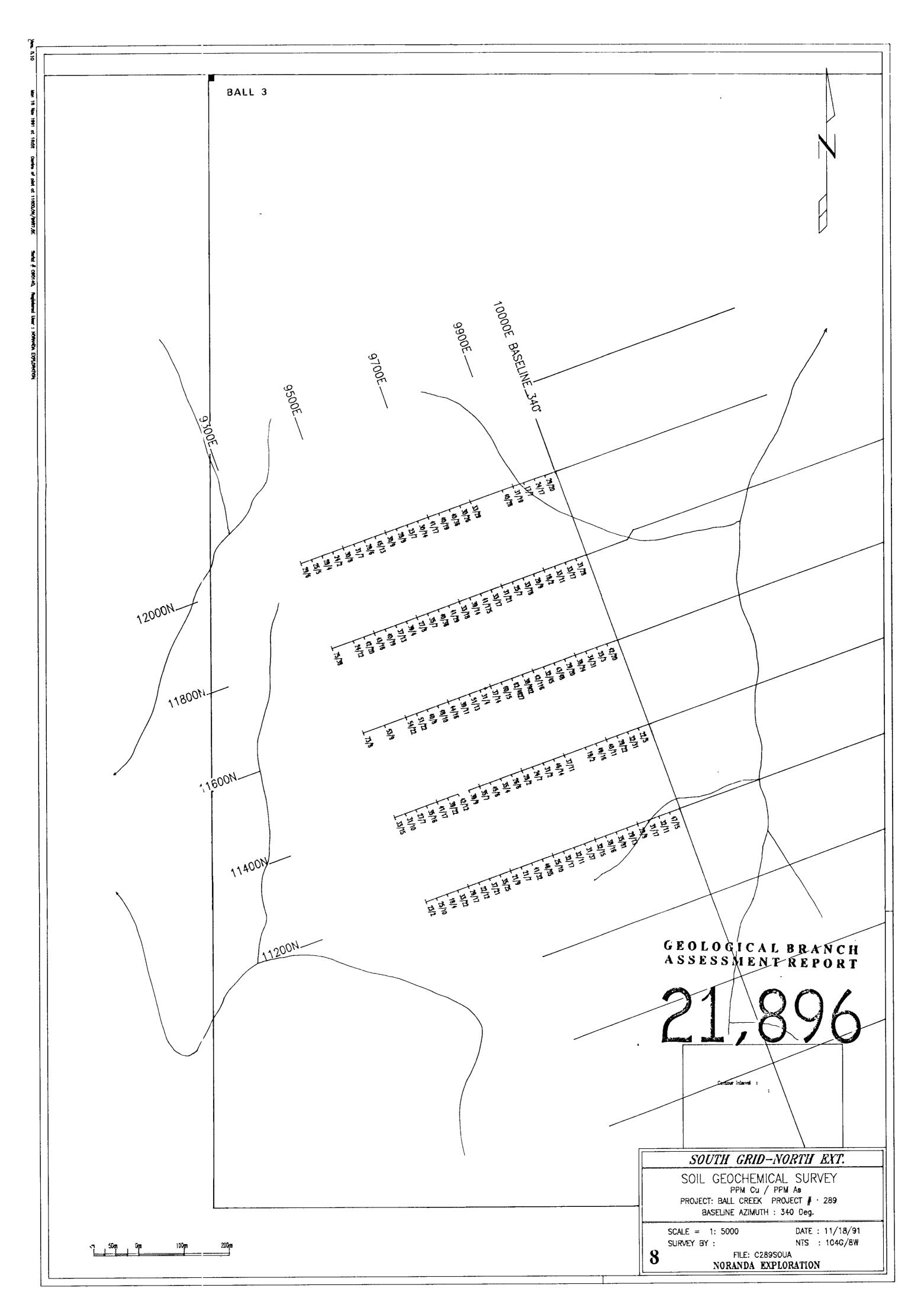


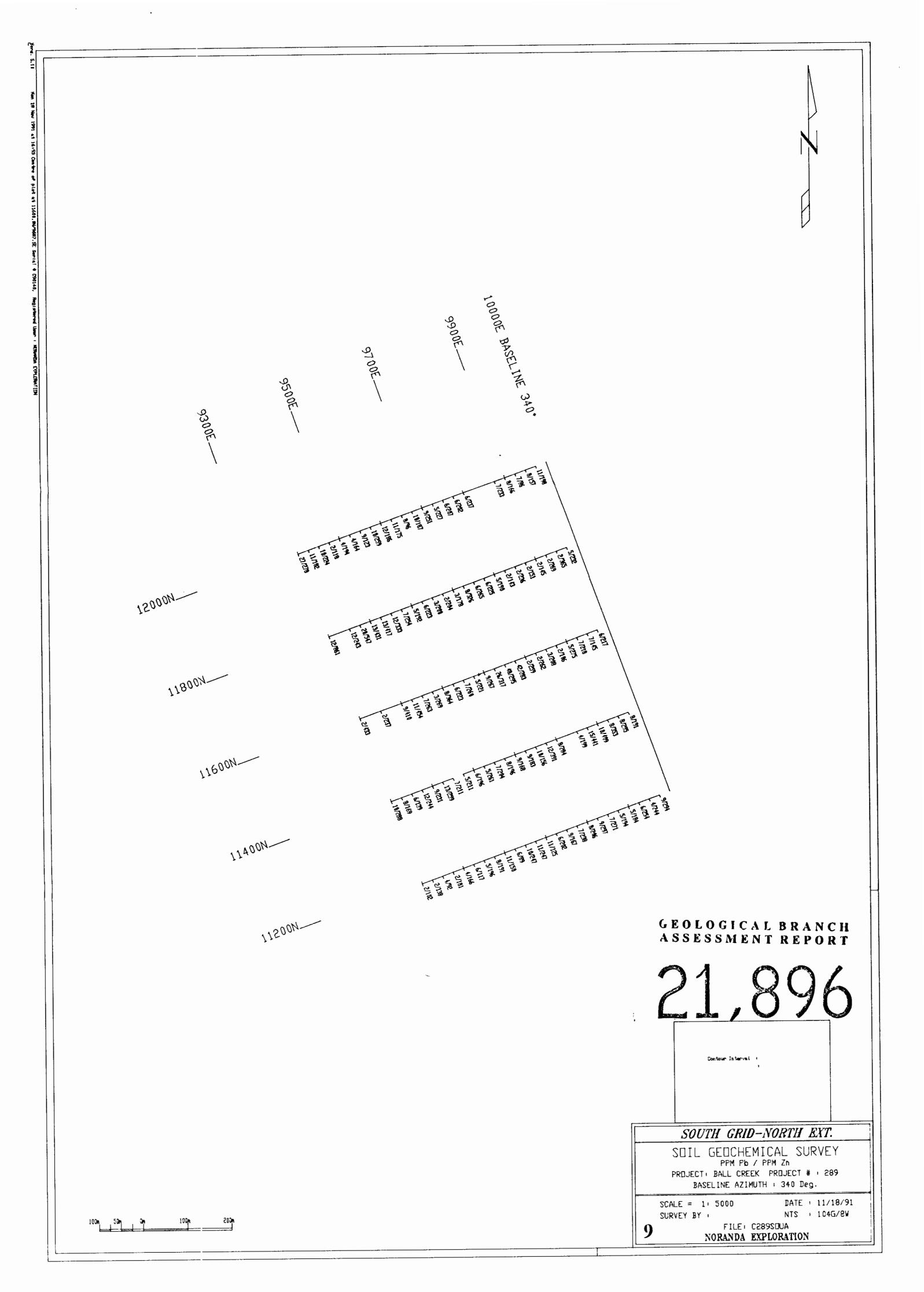


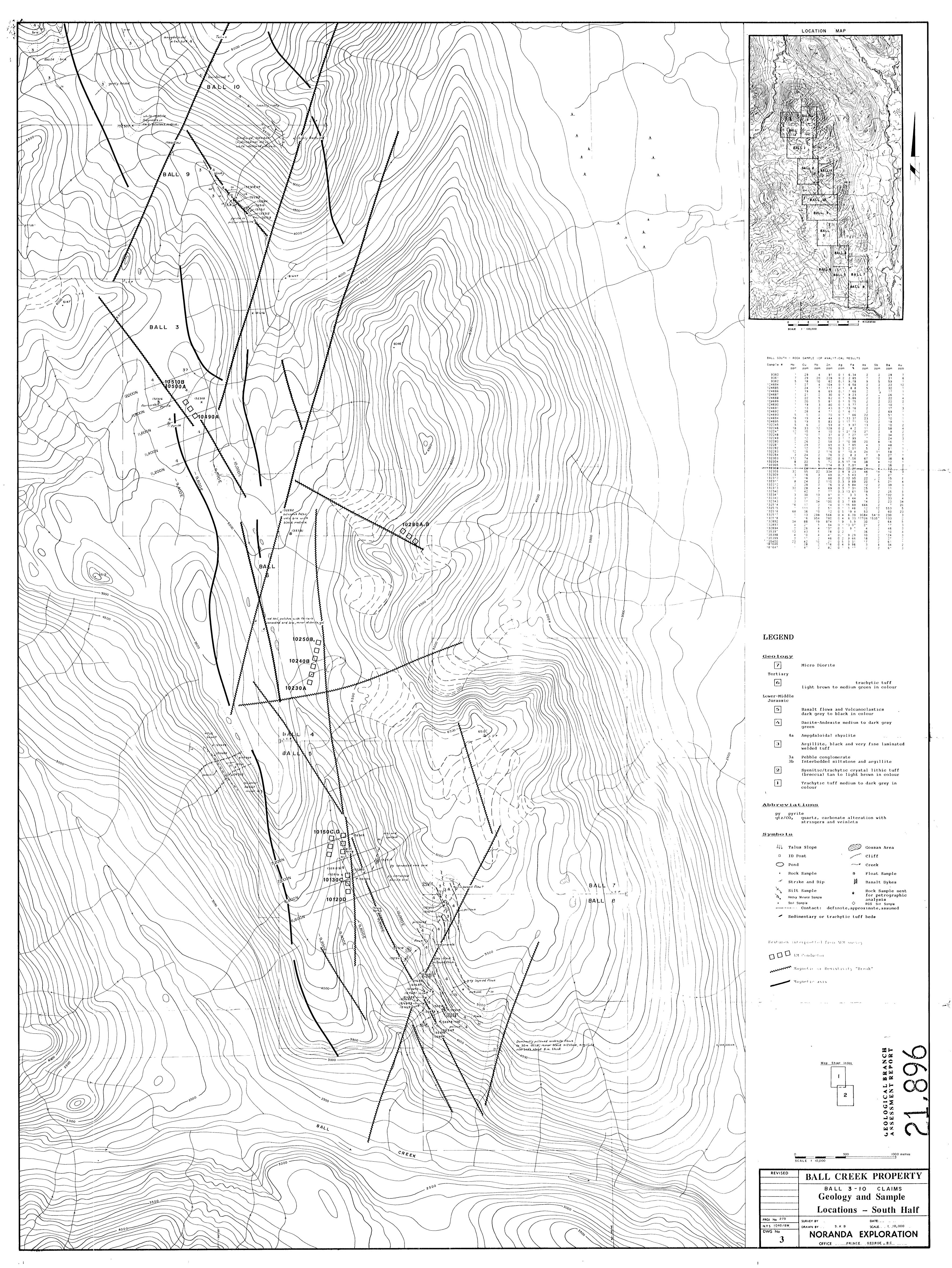


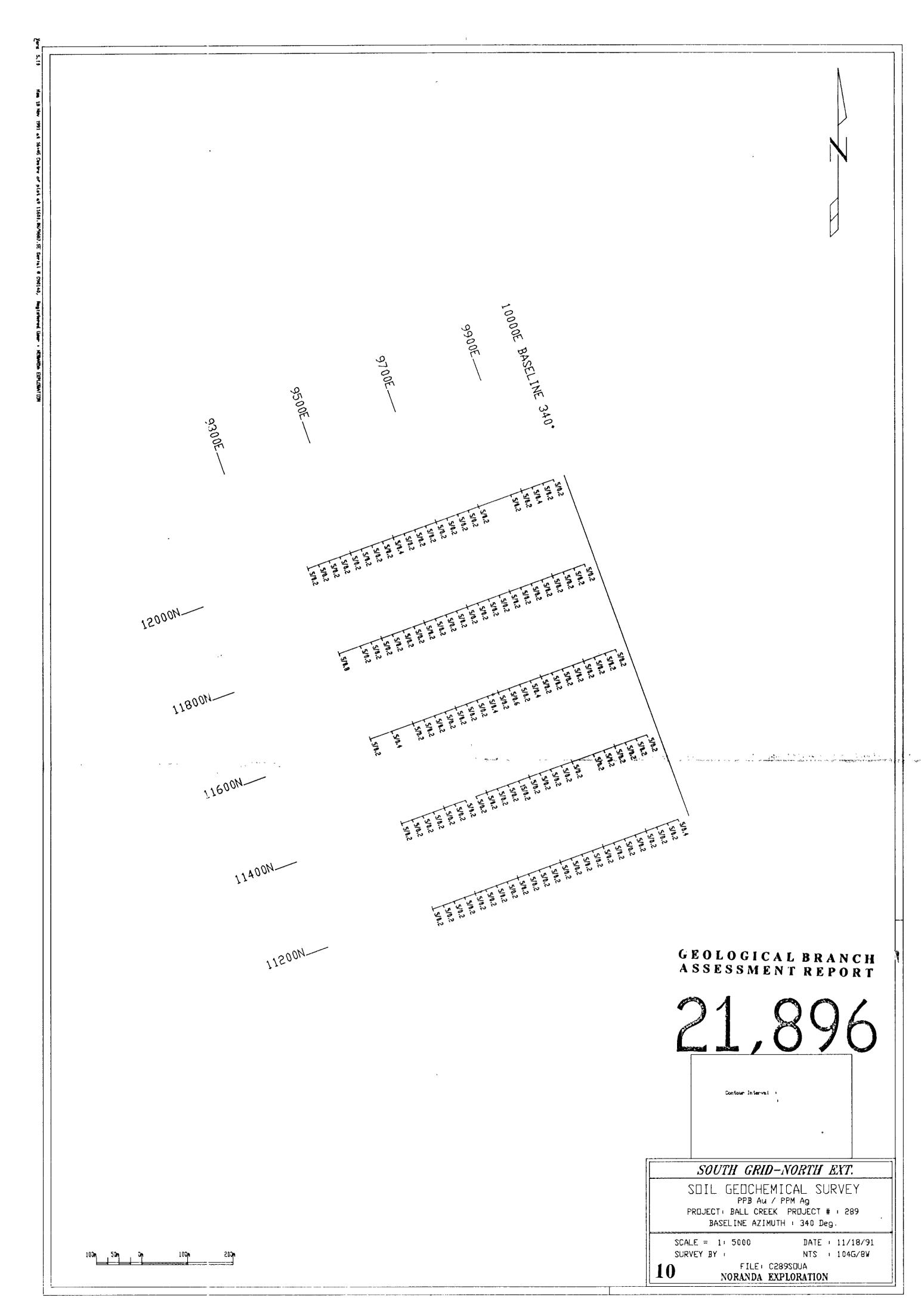


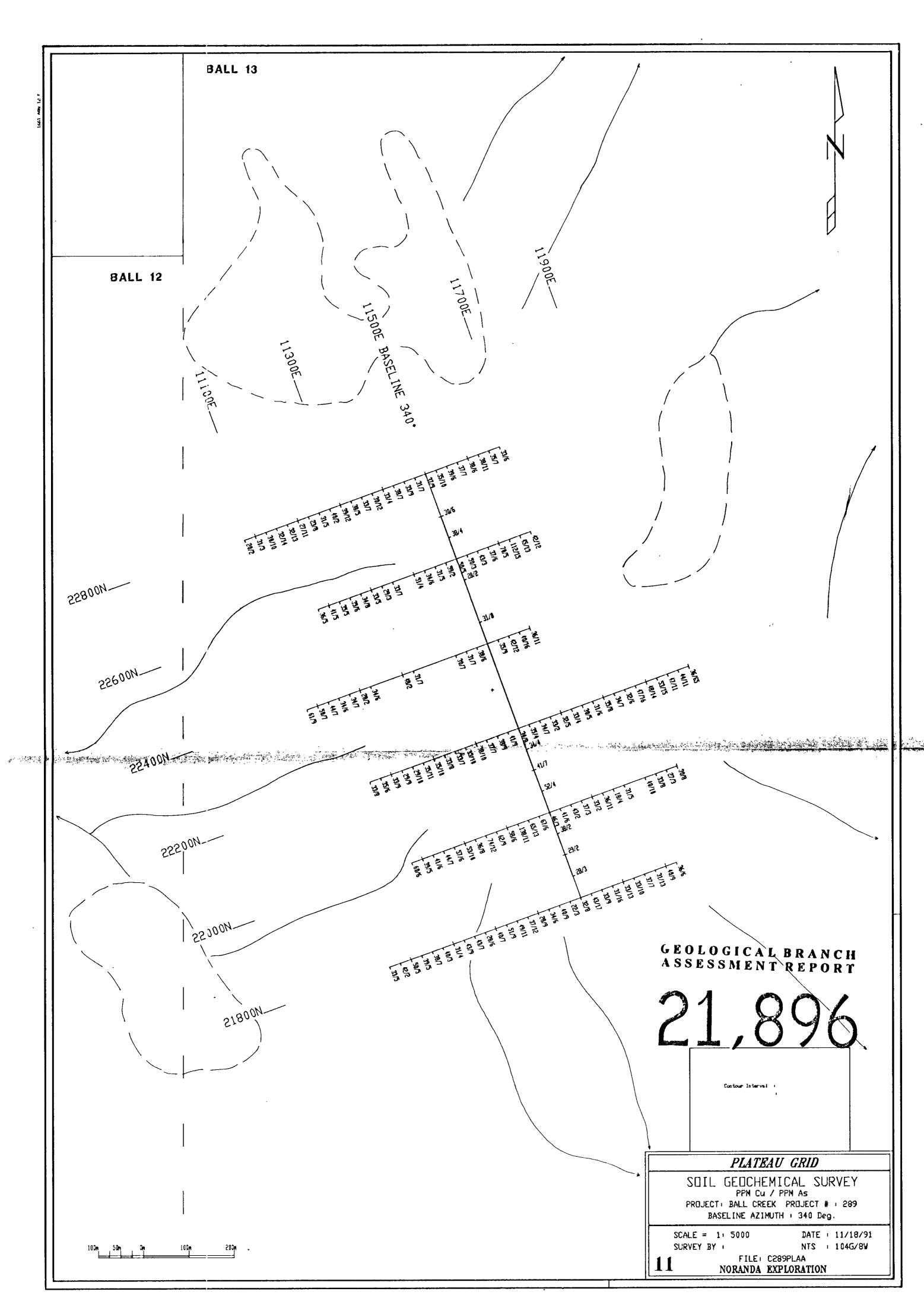


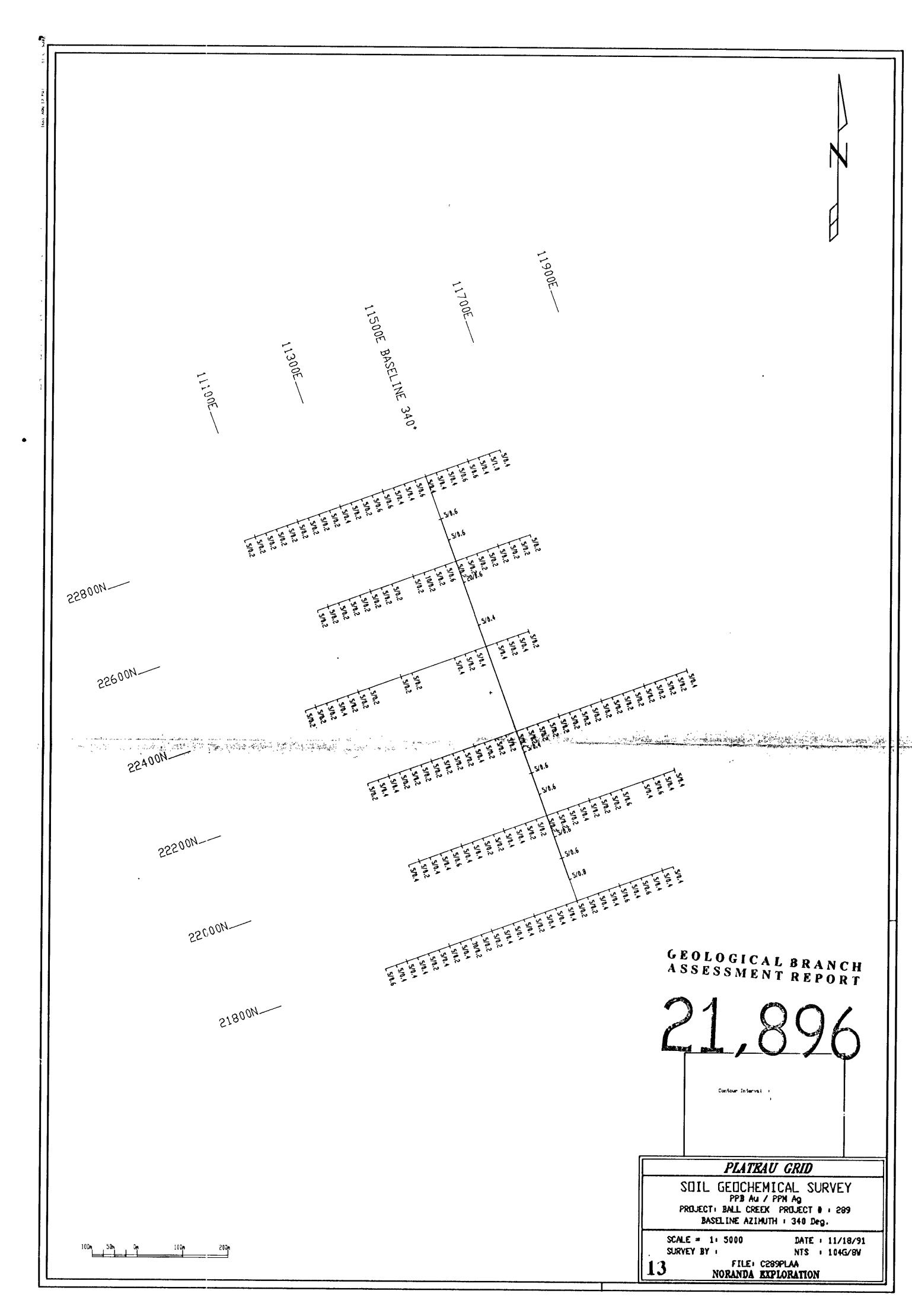


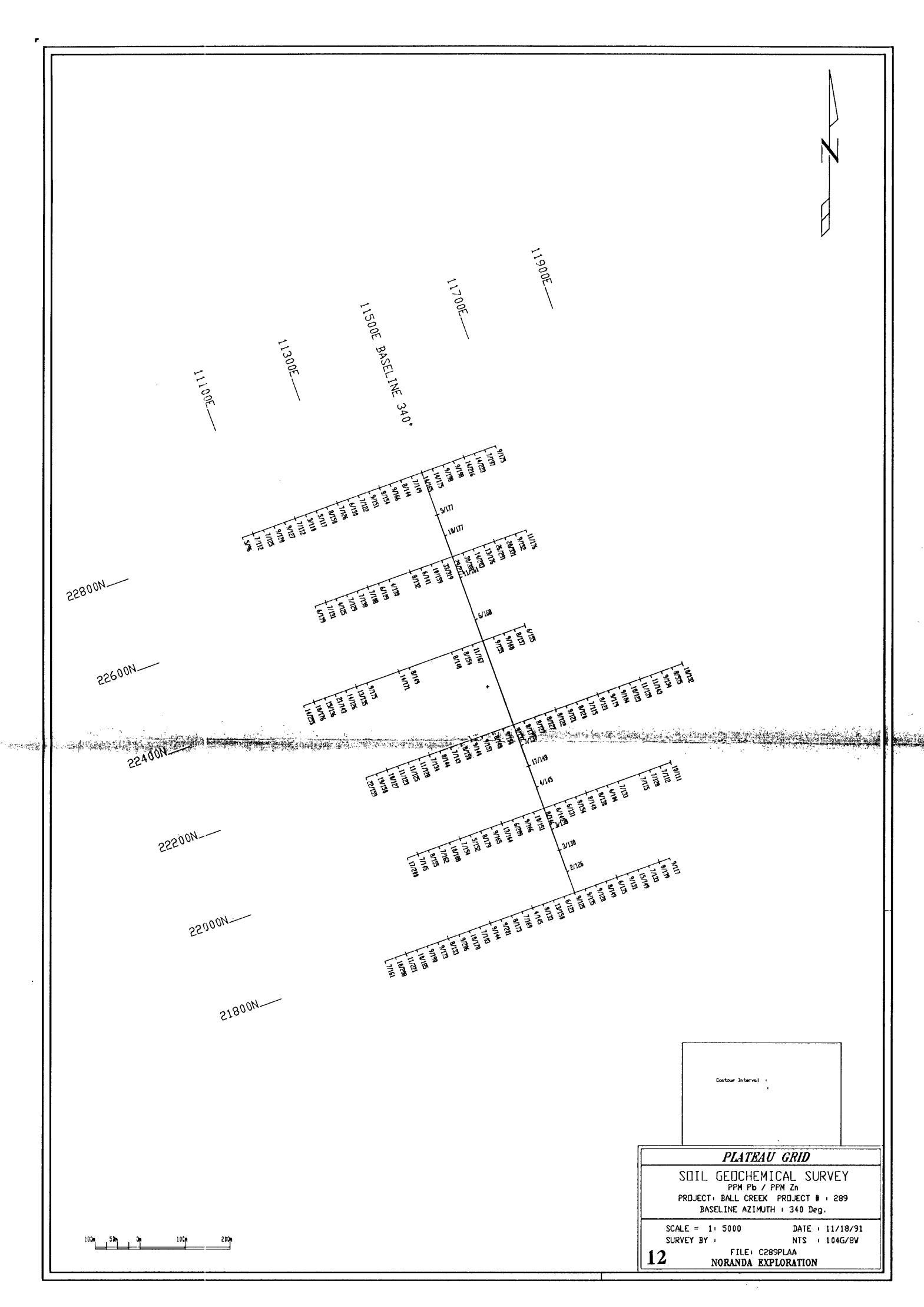


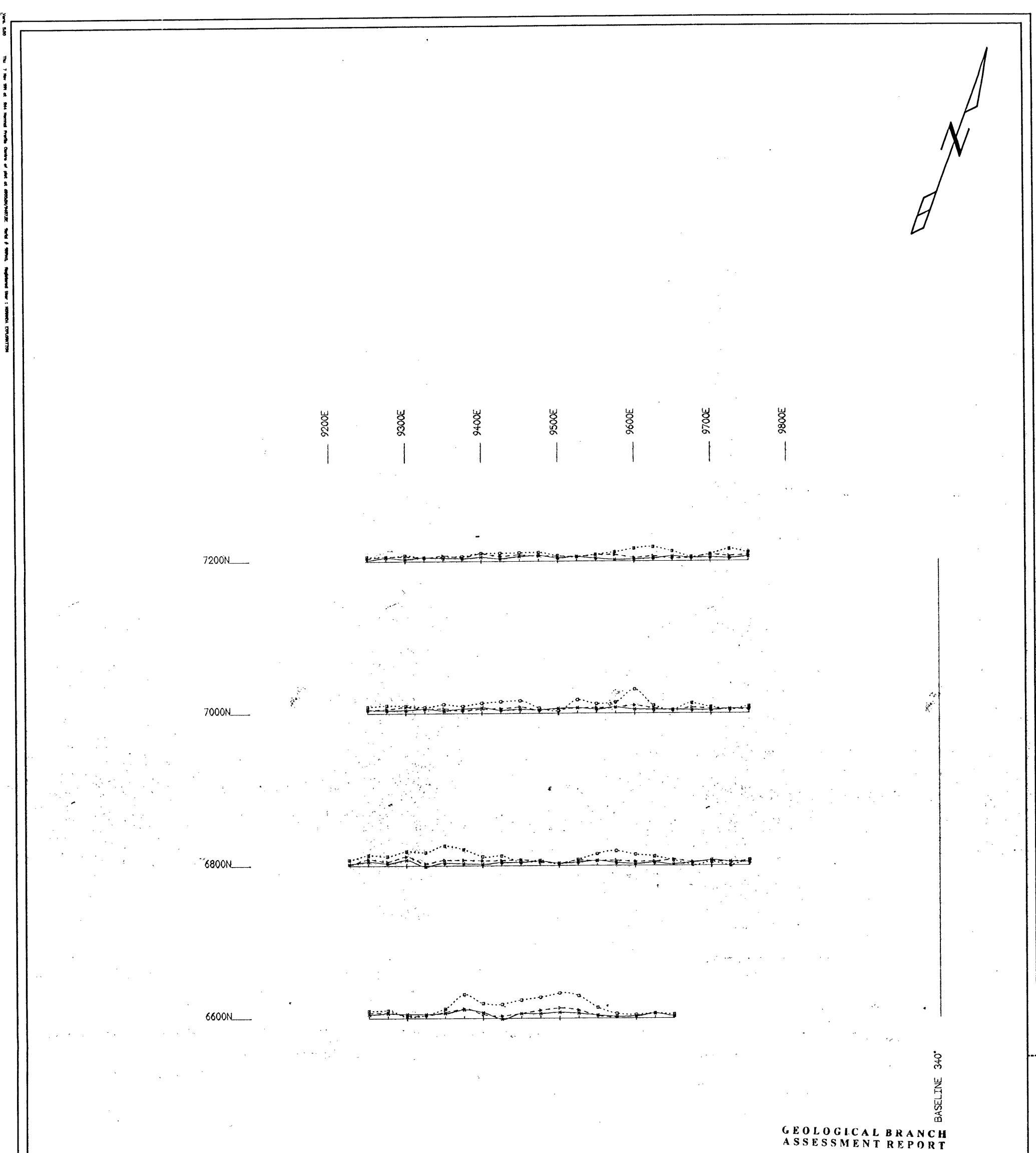


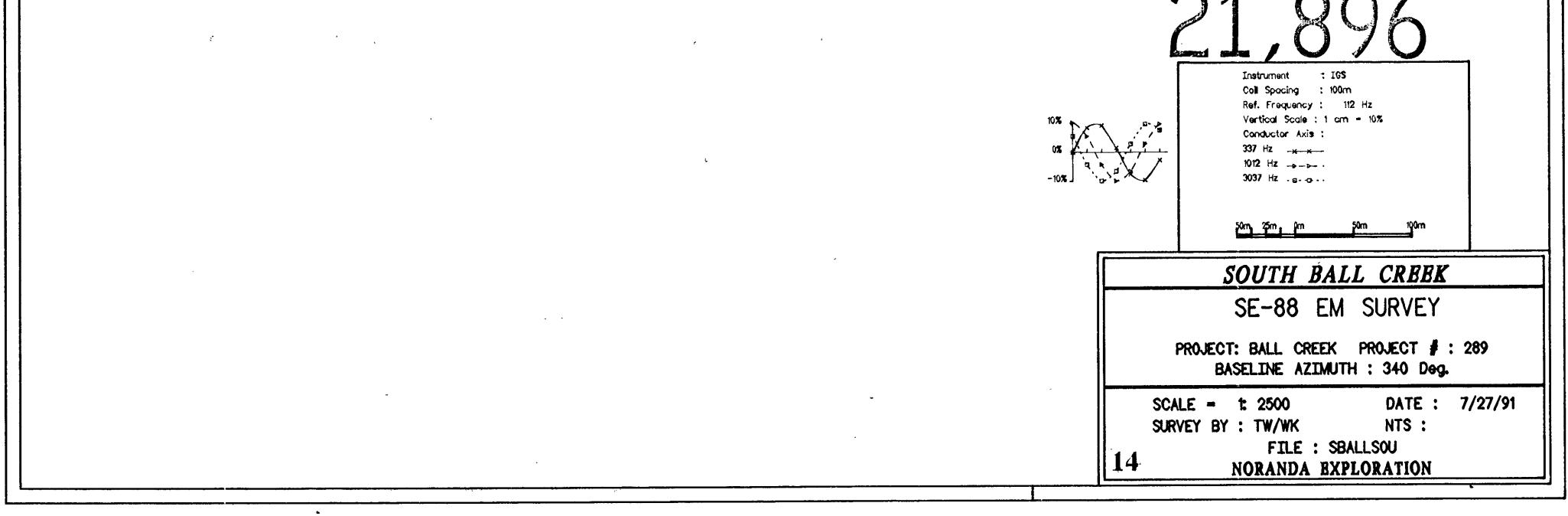












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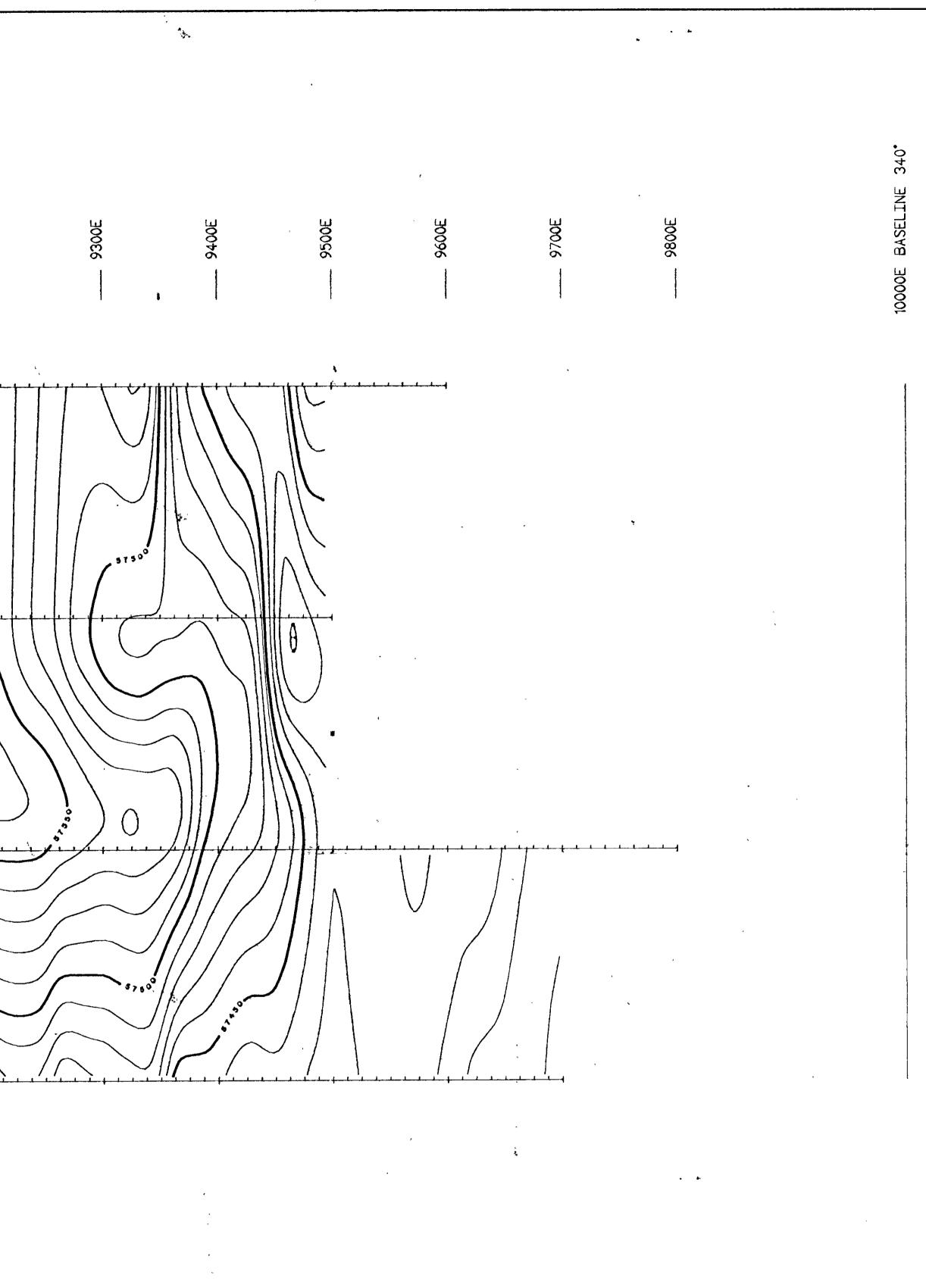
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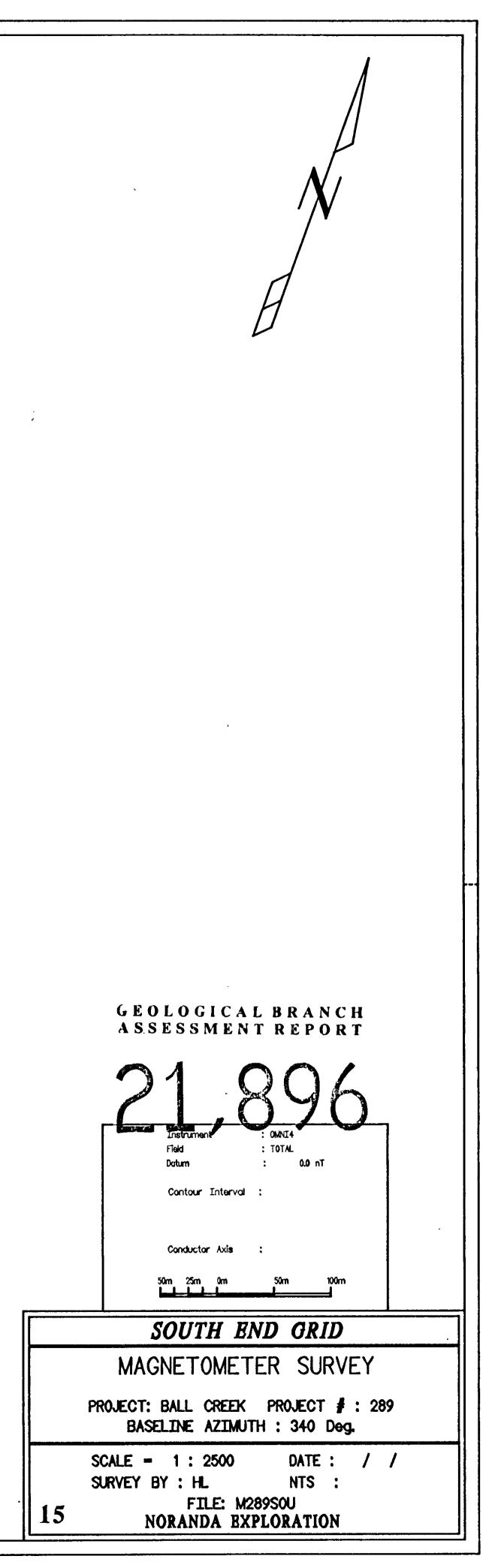
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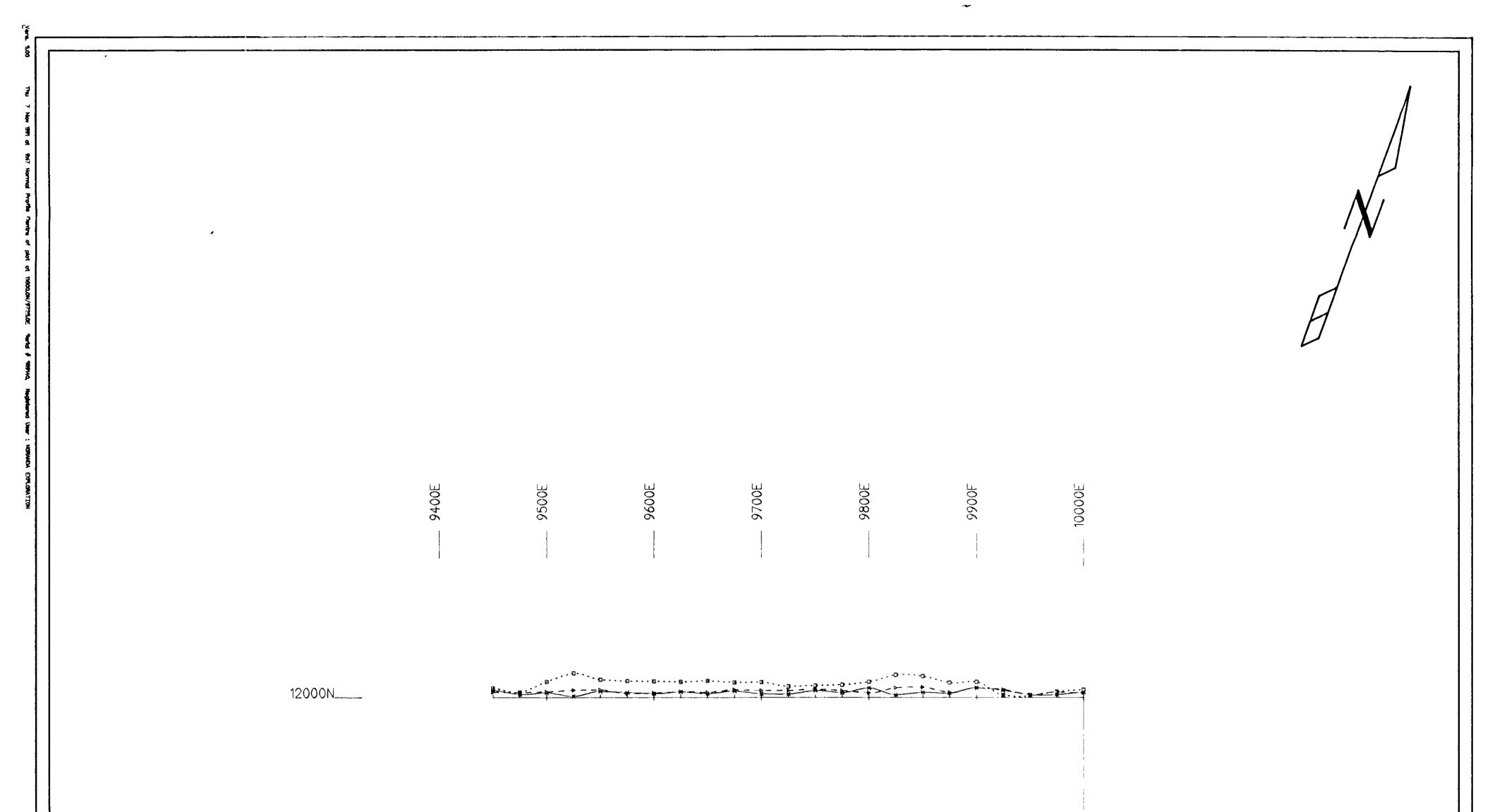
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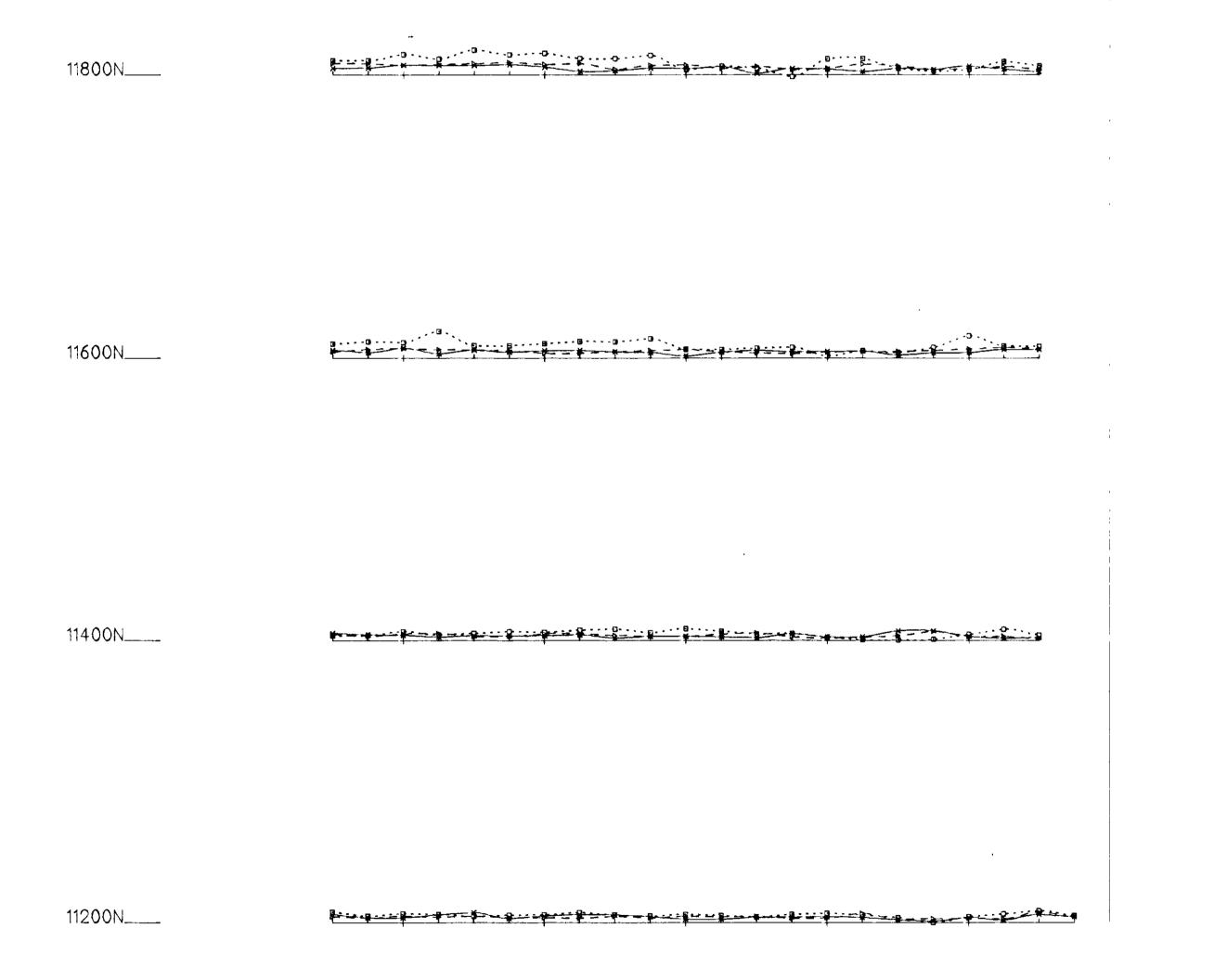


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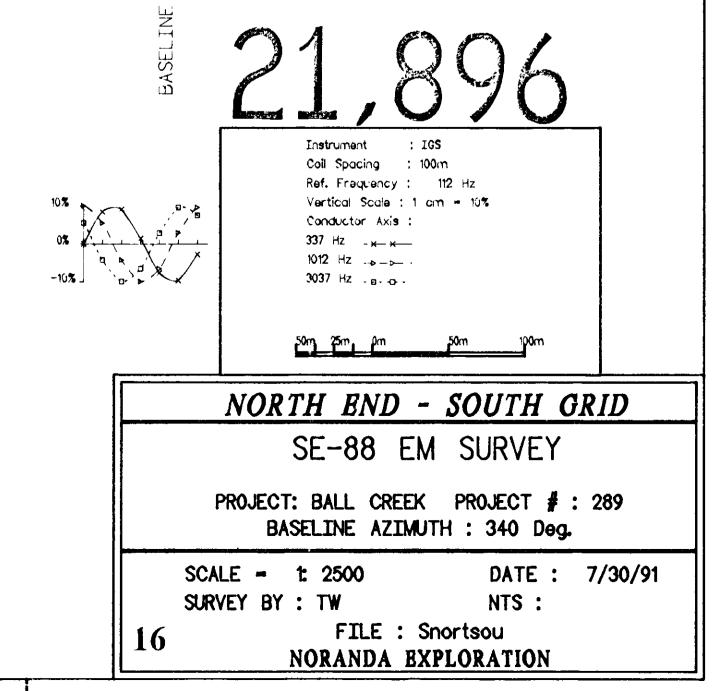


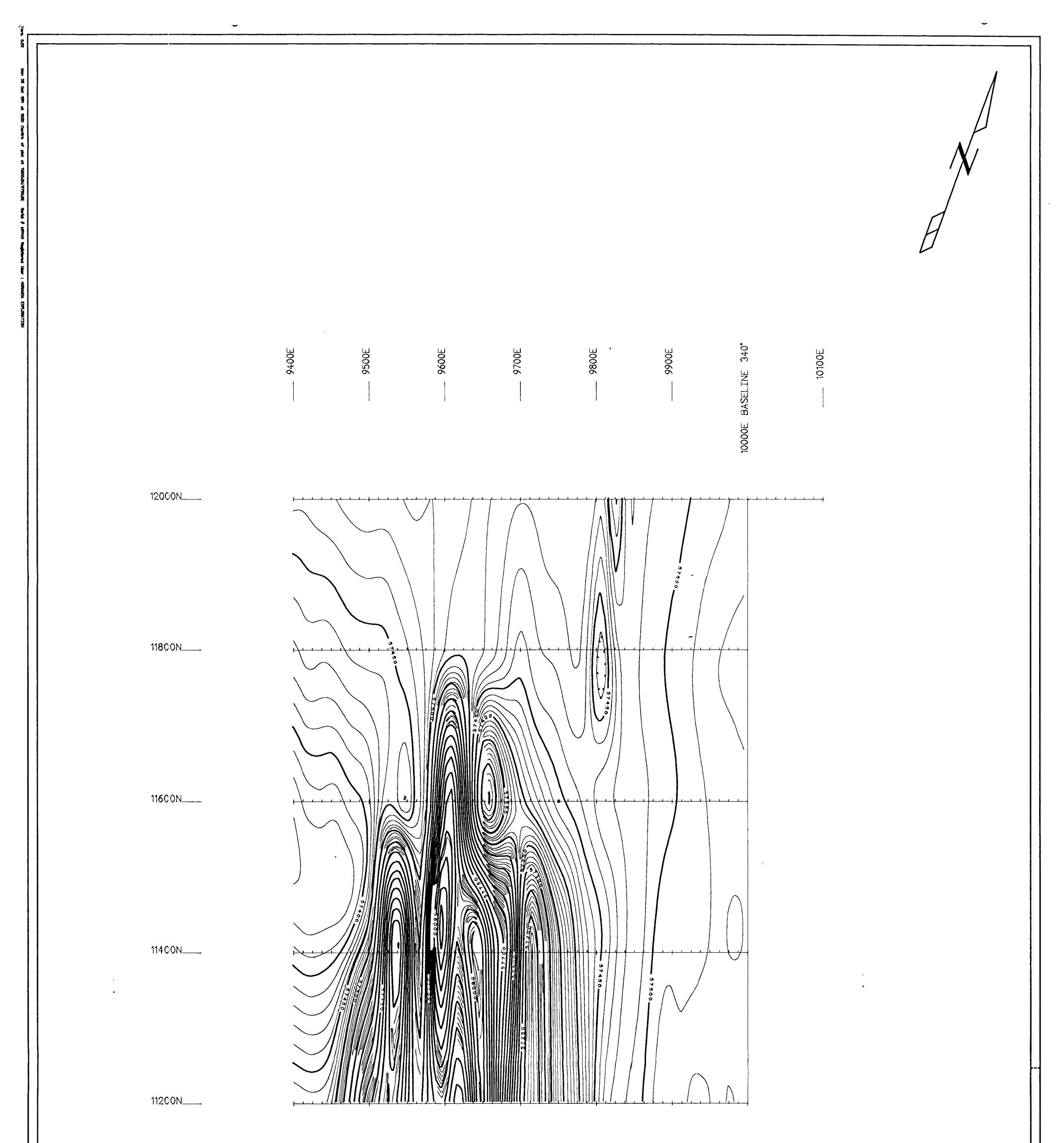




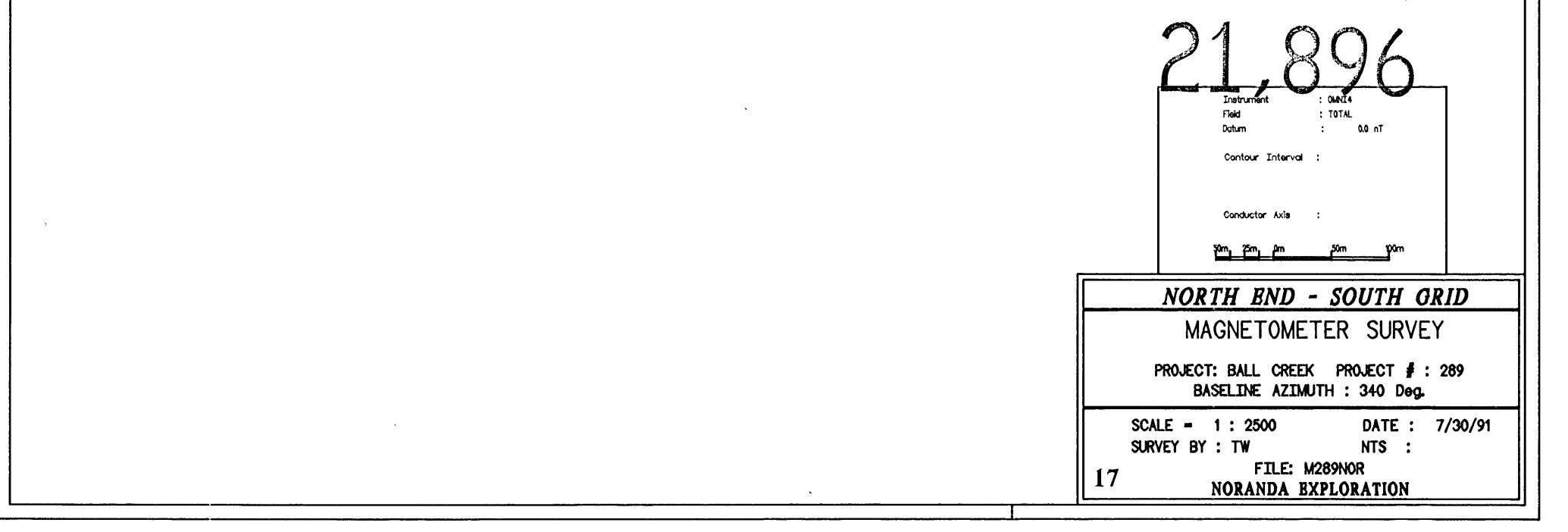
GEOLOGICAL BRANCH ASSESSMENT REPORT

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GEOLOGICAL BRANCH ASSESSMENT REPORT



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GEOLOGICAL BRANCH ASSESSMENT REPORT

