

LINECUTTING, GEOLOGICAL MAPPING

AND

GEOCHEMISTRY

ON THE

ELF NORTH GROUP CLAIMS

NTS: 94F/7E&W

BY: TECK EXPLORATION LTD.

FOR: CIRQUE OPERATING CORP.

R. FARMER NOVEMBER 1997

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SUMMARY

A program comprising linecutting, geological mapping and soil geochemical sampling was carried out on the Elf North Group claims between July 23 and August 3, 1997. The purpose of the program was to assess two areas previously identified as prospective, by establishing grids to facilitate detailed geological mapping and soil sampling, with a view towards identifying potential drill targets.

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A total of 14.5 line kilometres of linecutting was completed on two grids. A total of 6.8 line kilometres were completed on the Ian Creek Grid. On the Joel creek Grid, only the northwestern portion of the grid is included in the Elf North Group, totaling 7.7 line kilometres. The southeastern portion is described in a separate report.

A total of 14.5 line kilometres of grid controlled geological mapping were completed on the two grids, and a total of 520 soil samples and one rock sample collected on Elf North Group claims.

Exploration on the Ian Creek Grid has identified two parallel horizons of prospective siliceous shale, both of which contain barite mineralization. The eastern horizon is associated with two high contrast geochemical anomalies. One anomaly, a Pb-Zn-Ag multielement response continues southward off the grid, and has been previously tested by a drill hole which intersected massive barite. This anomaly should be fully delineated by extending the grid southwards. Both anomalies may warrant additional drill testing.

On the Joel Creek grid, a thick section of Gunsteel shales again contains two parallel siliceous shale horizons. The western horizon is the thickest and most prospective. Both horizons are associated with multielement soil anomalies, however the western horizon has a higher contrast Pb-Zn-Ag (Ba) response, a ferricrete zone and remains untested. Two drill holes may be warranted to test this horizon.

RECOMMENDATIONS

- 1. Extend the Ian Creek grid southeastwards to fully delineate the strong multielement soil anomaly near the eastern end of line 160N.
- 2. Re-log existing drill core from the Ian Creek grid area to assess the nature and extent of barite mineralization intersected in hole 81-E-11.
- 3. Upon completion of Nos. 1&2 above, diamond drill all favourable geological and geochemical targets.
- 4. Test the multielement soil anomaly on line 148N at the baseline on the Joel Creek grid and the ferricrete zone near 98+50E on line 145N by hand trenching.
- 5. On the Joel Creek grid, drill test the western siliceous shale horizon, in the area of strong multielement soil geochemistry. The best targets are lines 146N and 143N.

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INTRODUCTION

The Elf property is located in the Akie River area, southern Kechika trough, in northeastern B.C. The property is underlain by a thick succession of black shale and chert of the Upper Devonian Gunsteel Formation, Earn Group. The Cirque deposit (30 MT @ 8% Zn, 2% Pb, 37g/t Ag), located 35 kilometres to the northwest, is hosted by these same shales. The Elf property consists of 161 contiguous units and this report describes work carried out on the northwestern portion of the property, grouped as Elf North Group (96 units).

During 1997 a program comprising linecutting, grid controlled geological mapping and soil geochemistry was carried out on the northwestern portion of the Elf property, grouped as Elf North Group. Work was carried out on two grids; the Ian Creek Grid and the Joel Creek Grid. The purpose of the program was to establish a grids in the Ian Creek and Joel Creek areas where favourable stratigraphy and baritic mineralization had been identified in 1995, to allow detailed geological mapping and soil sampling in an attempt to locate additional mineralization in this area.

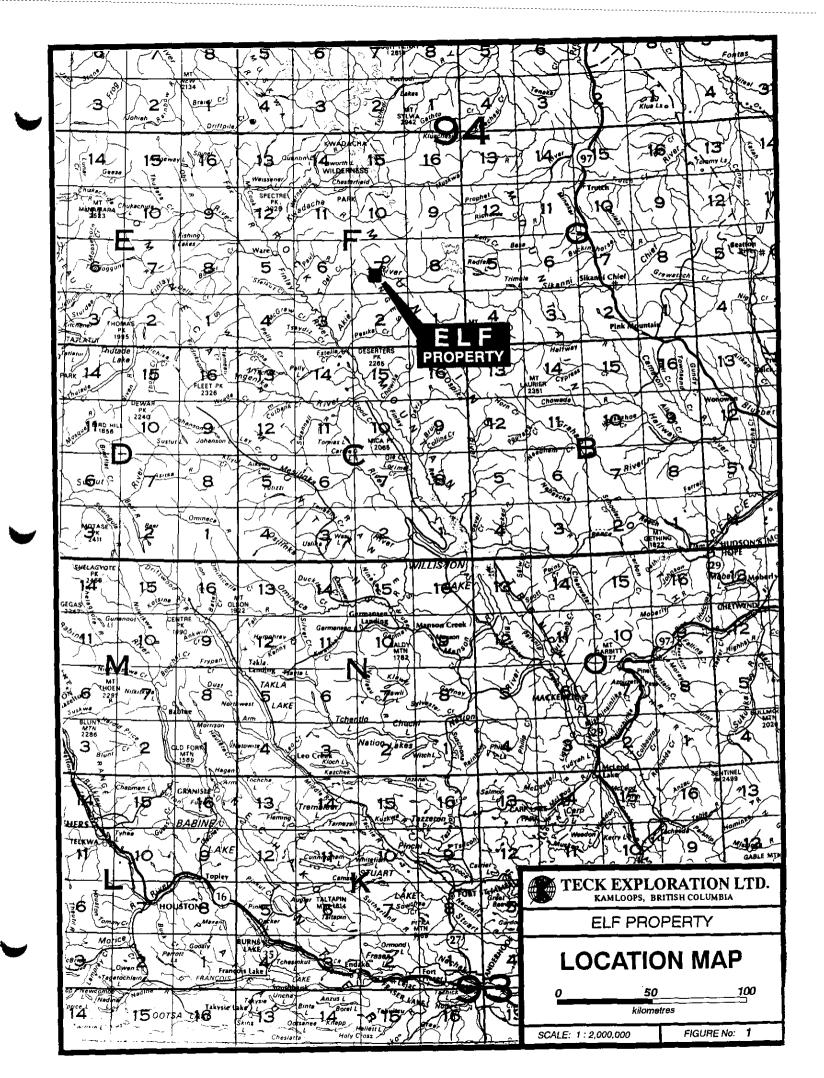
This report describes the work carried out on the Elf property, Elf North Group claims, and provides an interpretation of results obtained.

LOCATION AND ACCESS

The Elf property is located on the south slope of the Akie River, approximately 45 kilometres east-southeast of the village of Fort Ware, B.C. (figure 1). The center of the claims are located at latitude 57° 18' N, longitude 124° 42' W, on NTS mapsheets 94F/7 E&W.

Access to the property is via helicopter only, with the nearest base located at the logging camp of Finbow, 40 kilometres west of the property. Assess to Finbow camp is by fixed wing aircraft or barge from the town of Mackenzie, B.C., a distance of 250 kilometres. The 1997 program was based out of the Finbow Camp located 40 km northwest of the property, utilizing helicopter transport to the property on a daily basis.

The Elf claims cover the steep south slope of the Akie River. Slopes are generally heavily timbered with spruce and fir, higher elevations on ridge tops are above tree line. Despite heavy timber, slopes are very steep (often 30-50°), with much timber on the ground. Elevations on the property vary between 930 and 1600 metres, with several steeply incised creek valleys cutting across the predominant northwest topographic alignment.



CLAIMS

The Elf property comprises 21 claims totaling 165 units (figure 2). The current registered owner of all claims is Cirque Operating Corp. This report concerns a portion of these claims, 11 claims totaling 96 units, comprising Elf North Group. Table 1 below provides a summary of claim statistics.

Claim Name	Record Number	Number of Units	Owner	Expiry Date*
Elf 1•	237990	6	Cirque Operating Corp.	23 Jun 2001
Elf 2	237991	6	Cirque Operating Corp.	23 Jun 2001
Elf 3•	237992	4	Cirque Operating Corp.	23 Jun 2001
Elf 4	237993	10	Cirque Operating Corp.	23 Jun 2001
Elf 5	237994	4	Cirque Operating Corp.	23 Jun 2001
Elf 6•	237995	10	Cirque Operating Corp.	23 Jun 2001
Elf 7	237996	4	Cirque Operating Corp.	23 Jun 2001
Elf 8•	237997	18	Cirque Operating Corp.	23 Jun 2001
Elf 9•	237998	8	Cirque Operating Corp.	23 Jun 2001
Elf 10	237999	8	Cirque Operating Corp.	23 Jun 2001
Elf 11	238000	12	Cirque Operating Corp.	23 Jun 2001
Elf 12•	238001	1	Cirque Operating Corp.	23 Jun 2001
Elf 13•	238007	20	Cirque Operating Corp.	18 Jul 2001
Elf 14•	238008	20	Cirque Operating Corp.	18 Jul 2001
Elf 15•	238009	2	Cirque Operating Corp.	18 Jul 2001
Elf 15	238029	9	Cirque Operating Corp.	01 Aug 2001
Elf 16	238128	5	Cirque Operating Corp.	22 Jun 2001
Elf 17•	238129	3	Cirque Operating Corp.	22 Jun 2001
Elf 18•	238144	4	Cirque Operating Corp.	13 Aug 2001
Elf 19	238287	4	Cirque Operating Corp.	11 Jul 2001
Elf 21	238336	3	Cirque Operating Corp.	11 Sept 2001

Table 1Claim Statistics

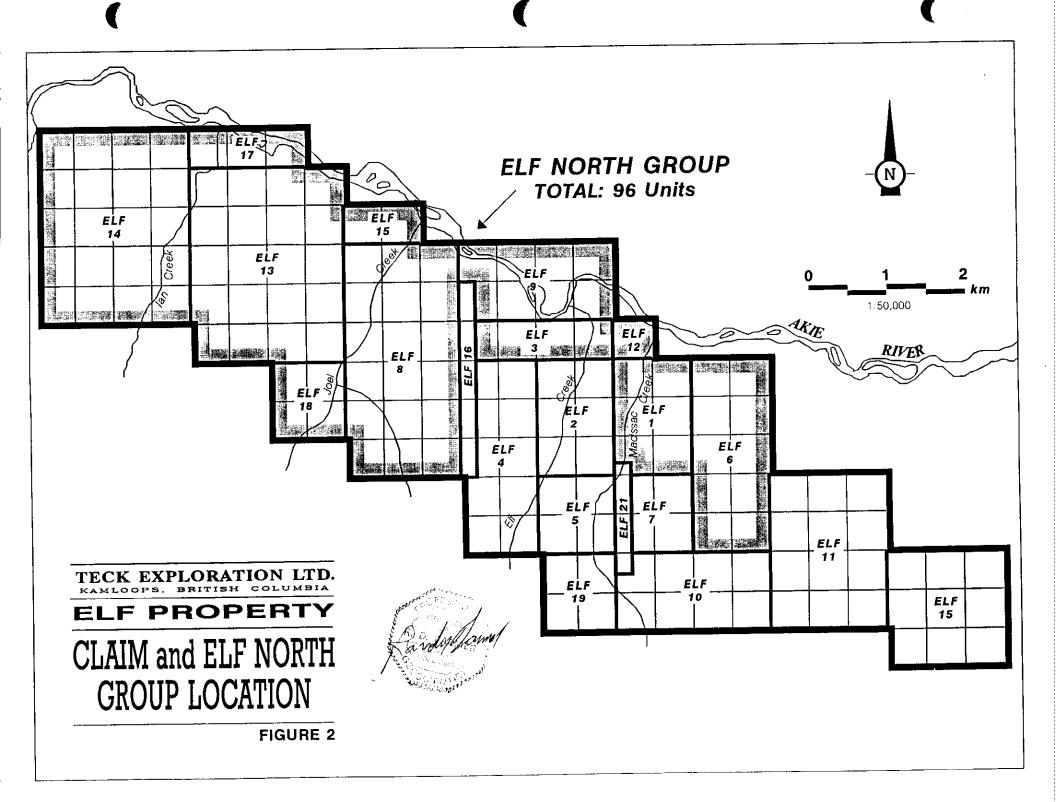
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Total: 96 Units

- Grouped as Elf North Group
- * Expiry of Elf North Group Claims Based on Acceptance of this Report

PREVIOUS WORK

The Elf claims were explored between 1978 and 1982 by Cyprus Anvil Mining Corporation. Work carried out during that period included, geological mapping, stream and soil geochemical sampling, linecutting, orthophoto base map construction, horizontal loop EM and diamond drilling.



Follow-up of stream sediment anomalies and mineralized float led to the 1979 discovery of a high grade barite-lead-zinc showing in Elf Creek. Between 1979 and 1982 a total of 26 diamond drill holes (10,500 metres) were drilled on the property, 23 in the area of the Elf Creek Showing and three to test soil anomalies in the northern portion of the claims, one of these in the area now covered by the Joel Creek Grid, and two in the area now covered by the Ian Creek grid. Significant mineralization was intersected in eight holes directly under the Elf showing, with the best being 3.65% Pb, 10.13% Zn, 27.2 g/t Ag over a true width of 10.9 metres. A further 15 holes drilled in the vicinity of the of the showing failed to intersect the mineralized horizon due to bad drilling conditions (10 holes), or intersected a barren zone at the targeted horizon (5 holes). Three holes drilled to test soil anomalies several kilometres to the northwest, failed to intersect significant mineralization. The majority of this drilling was undertaken on what is now the Elf South Group of claims.

In 1995, a program comprising regional scale geological traverses, linecutting, soil geochemical sampling and grid controlled geological mapping were carried out by Teck Exploration Ltd.

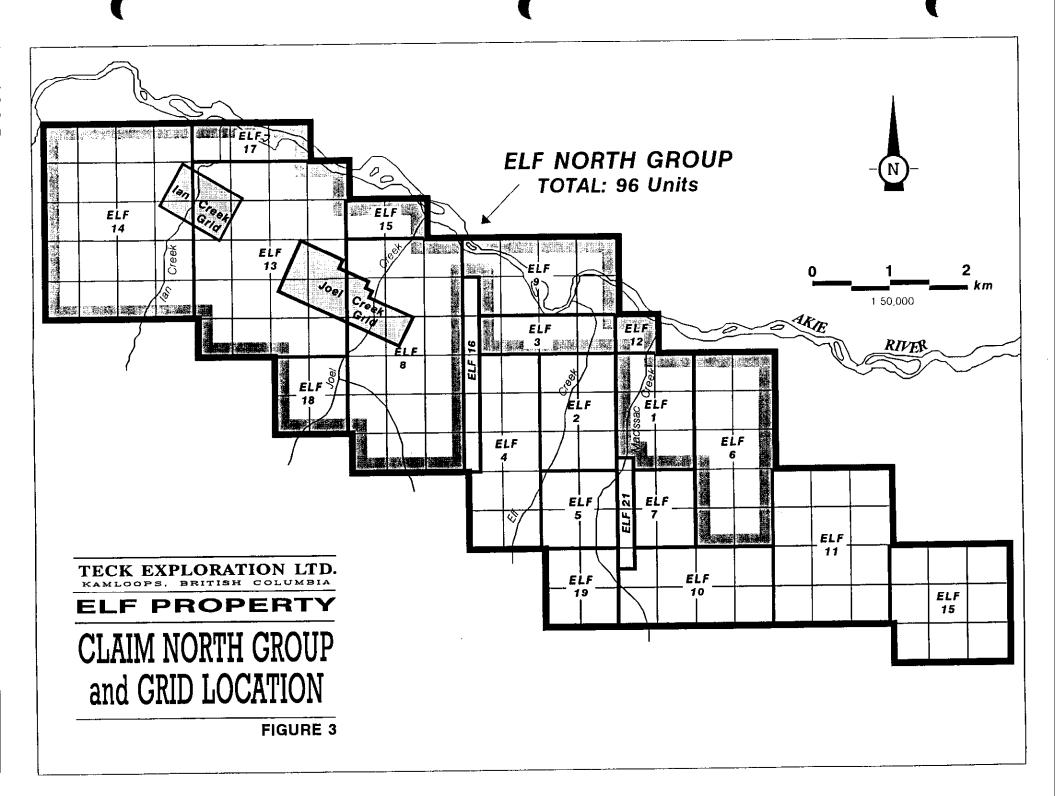
CURRENT PROGRAM

During the period July 23 to August 3, 1997 a program consisting of linecutting, grid controlled geological mapping and soil geochemical sampling was carried out on two grids within the Elf North Group claims. On the Ian Creek Grid, work comprised establishing a grid in an area previously identified as being geochemically anomalous (Roberts, 1979). At Joel Creek, approximately 3 km to the southeast, a grid was established to cover an area of favourable stratigraphy containing barite mineralization identified in 1995 (Farmer, 1995). Only a portion of the Joel Creek grid is reported on here, the northwest portion, located on the Elf 13 claim (figure 3). The remainder of the grid is covered in a separate report on the Elf South Group of claims. The claim boundary marking the limit of work described here is indicated on all grid maps (figures 6 and 11-14). The purpose of the program was to attempt to locate significant mineralization or proximal stratigraphy which may warrant drill testing on both the Ian Creek and Joel Creek grids. A total of 14.5 line kilometres of linecutting and geological mapping were completed, and 520 soil samples, along with one rock chip sample collected as part of the 1997 program. Geology and soil geochemical results are plotted on 1:2500 scale grid maps included as figures 5 to 14.

LINECUTTING

Linecutting was carried out by Twin Mountain Enterprises Ltd. of Whitehorse, YT. Linecutting on Elf North Group claims in 1997 consists of a total of 14.5 line kilometres, including 6.8 line kilometres on the Ian Creek Grid and 7.7 line kilometres on the northwestern portion of the Joel creek Grid. On the Joel Creek Grid only the portion

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of the grid located northwest of the Elf 13 claim boundary is included for assessment and described here. This includes portions of lines 140N to 143N, all of lines 144N to 151N and the baseline from 140N to 151N. On both grids baselines were established at an azimuth of 300° with crosslines run at an azimuth of 030° and spaced 100 metres apart. All lines were cut using a power saw. Azimuths were turned off using a brunton compass and maintained utilizing sight pickets. Distances were chained and slope corrected. Stations were established every 25 metres on cross lines and the baseline and are marked by wooden pickets with metal tags. The linecutting was done from July 23 to August 1, 1997 (9 days). Grid locations are shown on figure 3 and accurate grid lines are plotted on figures 5 to 14.

GEOLOGY

<u>A.</u> <u>Regional Geology</u> (Figure 4)

The best description of the geology of the Gataga district - Akie River area, including the Elf property area is provided by MacIntyre (1981, 1992).

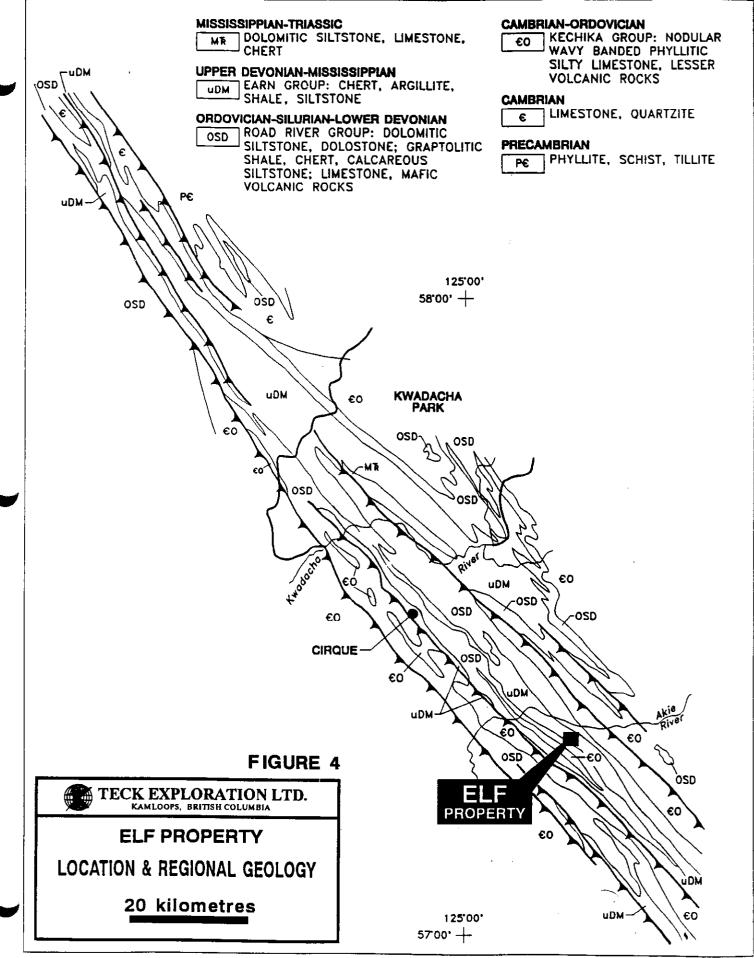
The Elf property is located within the Rocky Mountain Fold and Thrust belt of northeastern B.C. The property is located within Paleozoic, miogeoclinal basinal facies rocks of ancestral North America affinity (MacIntyre, 1992). These rocks were deposited in the Kechika Trough, a southeast extension of the Selwyn Basin, and are bounded to the east by platformal carbonates of the Macdonald Platform and to the west by carbonates of the Cassiar Platform. The Kechika Trough is underlain by predominantly clastic rocks, ranging from Proterozoic to Triassic in age which form a northwest trending linear belt. The Elf property is underlain by black shale, siliceous shale and chert of the Gunsteel Formation, Lower Earn Group, of Upper Devonian age. The Stronsay (Cirque) deposit, located 30 kilometres to the northwest (38.5 mt @ 8.0% Zn, 2.2% Pb, 47.2g/t Ag), is hosted by the same Gunsteel Formation shales. Northeast directed compression has resulted in complex thrusting and related folding, resulting in difficult srtatigraphic correlation.

Cyprus Anvil Mining Corporation carried out extensive work on the Elf property during the period 1978-1982, including regional and detailed mapping and diamond drilling. From this work a showing was discovered near Elf creek, consisting of laminated massive barite and galena, named the Elf Showing. This showing is associated with black, siliceous shale.

B. Property Geology - 1997 Work

Geological mapping in 1997 included, detailed grid controlled mapping on two grids, the Ian Creek and Joel Creek grids, comprising 6.8 line kilometres and 7.7 line kilometres, respectively. Mapping was facilitated by traversing grid lines and areas between lines and outcrops or other features were plotted in relation to the nearest grid

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AFTER MacINTYRE, 1983

station. Geological mapping was carried out between July 28 and August 1, 1997. A single rock sample was collected during the course of mapping. Geology for the Ian Creek grid is plotted on figure 5 and for Joel Creek Grid, on figure 6.

The Gunsteel sequence on the property trends in a northwest - southeast manner across the claims and is bounded to the southwest by Silurian calcareous siltstone, which has been thrust northeastwards onto the younger Gunsteel shales. To the northeast the Gunsteel shales are overlain by a siltstone/shale package termed by previous operators as the Conundrum Siltstone. The nature of the contact is not clear, but likely is a fault.

Gunsteel shales form a belt several hundred metres thick on the property, however structural repetition is likely. Mapping in 1997 has recognized five distinctive subdivisions based on lithology, but relative stratigraphic relationships are unknown. The subdivisions include; silty, fissile shales (unit 3e), siltite laminated shale (unit 3d), chert (unit 3c), black "speckled" shale (unit 3b) and siliceous, graphitic shale (unit 3a). Siliceous graphitic shale of unit 3a is the host to mineralization at the Elf Showing, in the southern portion of the property. A description of lithological units is included in the "Lithology" section below. These different lithologies are distinctive in the field, however contacts are gradational resulting in areas with characteristics of more than one lithology, and several outcrops are often necessary to distinguish lithological units.

The shales have a general northwest strike with shallow to moderate dips to the southwest. Cleavage is generally subparallel to bedding but usually has a steeper, subvertical dip. Locally variable strikes and dips indicate complex structure, in terms of both folding and faulting. Small scale (10's of metres), tight to isoclinal, often overturned folds are common. Cliffs near the Joel Creek Showing show a variety of low to high angle faulting with offsets varying from a few centimetres to tens of metres and more. These faults are difficult to recognize anywhere other than cliff faces.

On the Ian Creek grid (figure 5), bedrock exposure was found to be poor, except along Ian Creek, on lines 160N and 161N and, along the northeastern portion of the grid, where bedrock is fairly well exposed. The Ian Creek Grid is underlain entirely by shales of the Gunsteel sequence (Unit 3). Siltstones of units 2 and 4 are not exposed in the grid area. confirming that the Gunsteel sequence is in excess of 600 metres wide in this area.

Although bedrock is fairly well exposed in portions of the grid area, the outcrops tend to be small and not well exposed, lending some difficulty to obtaining bedding and cleavage measurements. Lithologies tend to strike southeast (120-130°) with cleavage subparallel. Dips are to the west and variable. Two main bands of siliceous shale of unit 3a are present, trending across the grid separated by 300-400 metres of generally silty shale of unit 3e. One band roughly parallels the baseline, while the other occurs along the northeastern end of the lines. A poorly exposed third band is present between the other two. It is not clear whether these bands represent separate horizons or fold repetitions of a single horizon. Multiple bands (horizons?) of siliceous shale were not recognized by

previous operators and may have implications for the location and delineation of mineralization.

Nodular to laminated barite hosted by black siliceous shale was identified in two locations along Ian Creek, near the end of line 166N and, along the baseline between lines 165N and 166N. The exposure along the baseline was sampled (#51254), and although not anomalous in Pb, Zn or Ag, graded 24% Ba over 1.5 metres. The sample location and results are plotted on figure 5. Barite nodules and minor pyrite were observed in several localities, generally within siliceous shale.

Siltite laminated shale (Unit 3d) was identified in two locations, near 103E on line 161N and, near 99E on lines 160N and 161N. In both cases poor exposure prevented tracing the lithology any distance. Two exposures of black speckled shale (Unit 3b) were identified near 102+50E on line 160N, but could not be traced any distance.

On the Joel Creek Grid (figure 6), located approximately 3 kilometres southeast of the Ian Creek Grid, 7.7 line kilometres of mapping were carried out over the northwestern portion of the grid, northwest of the Elf 13 claim boundary. Only work carried out northwest of this claim boundary is discussed here. Results for the entire grid are shown on figure 6 for completeness however the southeastern portion of the grid is the subject of a separate report.

Mapping on the northwestern portion of the Joel Creek Grid has shown that nearly the entire grid area is underlain by Gunsteel Formation shales (unit 3). The contact with Silurian dolomitic siltstone of unit 2 is located approximately 100 metres towards grid east of the baseline on line 141N and previous mapping (Farmer, 1995) has shown that the same contact lies approximately 50 metres west of the baseline near 150N. Bedding in the grid area has a fairly consistent strike of 120-130° with moderate dips to the west. Cleavage, though locally variable, has a strike subparallel to bedding with steep west dip. Outcrop exposure is reasonably good, particularly in the northern and eastern portions of the grid.

Two belts of siliceous shale (unit 3a) were identified and bedding/cleavage relationships do not suggest a fold repetition. The western belt occurs near the baseline at the northern end of the grid, swinging into the center of the grid southwards. This belt is on the order of 200 metres wide at the north end, thinning to about 50 metres southeastwards. This belt of siliceous shale is interbedded with black, ribbon bedded chert, is locally strongly graphitic, with disseminated pyrite, barite nodules and concretions. Hydrozincite was recognized in two locations. Between lines 147N and 145N ferricrete rubble and subcrop were identified, possibly indicating the presence of significant sulphide mineralization. Silty shales of unit 3e are exposed west of this siliceous shale horizon, which are variably siliceous near lines 150N and 151N, possibly indicating they are interbedded with unit 3a in this area.

The eastern belt of siliceous shale is located 200 to 300 metres to the east, separated by silite laminated shale of unit 3d and silty shale of unit 3e. This horizon is much more weakly siliceous and is often interbedded with silty shale of unit 3e and speckled shale of unit 3b. Previous mapping (Farmer, 1995) had suggested a discrete unit of spotted shale in this area, however detailed grid mapping now indicates that spotted shales only occur as interbeds in a dominantly siliceous shale sequence. Of the two, the western horizon of unit 3a seems far more prospective as a host to mineralization.

A previous drill hole, collared at approximately 100E on line 143N and drilled towards grid east tested the eastern horizon of siliceous shale and did not encounter significant mineralization. The western horizon remains untested.

Direct evidence for folding was not identified in the mapped area.

C. Lithology

The following section describes lithologic units used on geological maps included in this report. Units are numbered from stratigraphically lowest to highest, although stratigraphic relationships within the Gunsteel Formation are not known at this time. Contacts between units belonging to the Gunsteel Formation (3a-3e) are gradational.

UNIT 1 - ORDOVICIAN STRATIGRAPHY

This unit includes limestone (Unit 1a) and mafic volcanic rocks of the Ospika Volcanics (Unit 1b). Unit 1a consists of massive to thick bedded grey limestone forming prominent ridges and cliffs in the southeastern portion of the property. The age of the limestone is uncertain, but because it occurs in the same thrust panel as Ospika Volcanics is considered to be Ordovician. Unit 1b consists of limonitic to ankeritic weathering, carbonate-rich, mafic volcanic flows and breccias. Rocks of Unit 1 are exposed in a thrust panel in the southeastern corner of the Elf claims, and are not exposed in the northern portion of the property, which is the subject of this report, and will not be discussed further here.

UNIT 2 - SILURIAN SILTSTONE

This is a distinctive package of rocks, including several lithologies which have not been subdivided. The most common and distinctive lithology consists of brown to buff weathering dolomitic siltstone. The siltstone varies from thin to thick bedded and locally contains thin interbeds of grey calcareous, shale. Occasionally, dark grey massive limestone is present as beds varying from a few centimetres to several ten's of metres thick. A lithology consisting of light grey calcareous mudstone containing 70% grey "pancake shaped" discontinuous limestone beds to 10 centimetres thick is also present locally. Rocks of Unit 2 have been thrust in a northeast direction over Devonian Gunsteel stratigraphy.

UNIT 3 - GUNSTEEL SHALES

Gunsteel shales are Upper Devonian in age and consist of grey to black shale, mudstone and chert. The sequence is host to Sedex Pb-Zn-Ag-Ba mineralization throughout the Kechika Trough and Selwyn Basin. Geological mapping on the Elf property has recognized five subdivisions within the Gunsteel shales, here designated as units 3a to 3e.

Subunit 3a consists of siliceous, graphitic black shale which locally contains carbonate concretions, nodular barite and/or disseminated to laminated pyrite. This subunit is the direct host to mineralization on the property. Due to the very siliceous to cherty nature of these rocks they tend to be non-fissile, in spite of being intensely graphitic and strongly cleaved. In addition, when present, concretions, barite nodules and pyrite laminations make this subunit readily identifiable. Carbonate concretions vary from less than one centimetre to in excess of one metre in diameter. Generally small lenses of black chert are often interbedded with the siliceous shales.

Subunit 3b consists of a very distinctive massive, black, silty shale containing abundant, pinhead sized grey spots, lending a speckled appearance to the lithology on fresh surface. Composition of the spots is not known but is most likely barite. Speckled shale of subunit 3b locally seems to form a readily mappable lithological unit, but in other areas occurs only as interbeds in other units. On the Joel Creek grid, speckled or spotted texture has been identified in siltstone and shale of unit 4 locally, perhaps suggesting that the texture may be a later (alteration or metamorphic?) event.

Chert (subunit 3c) is present, locally, throughout the Elf property. It occurs as interbeds a few tens of centimetres thick within siliceous shale of subunit 3a and as a distinct lithology 10 to 20 metres thick within and adjacent to subunit 3a. Cherts are also present far removed from siliceous shale stratigraphy where they form discrete horizons within siltite laminated shales of subunit 3d or silty shales of subunit 3e. As such they do not appear to be restricted to a particular portion of stratigraphy, but rather occur throughout the Gunsteel stratigraphy. Cherts are black and vary from massive to thinly bedded. Thinly bedded varieties contain millimetre scale shale interbeds, producing a "ribbon bedded" texture. They are characteristically rusty weathered on fracture surfaces due to a minor content of disseminated pyrite. Chert horizons can seldom be traced for any distance along strike, suggesting a discontinuous nature to their presence.

Subunit 3d consists of a grey to black, siltite laminated shale. Siltite laminations are light grey in colour and a few millimetres to one centimetre thick, often imparting a striped appearance to shales. This texture is best recognized on weathered surfaces. Rocks of subunit 3d are always non-siliceous, and often silty looking. They are

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commonly very fissile in outcrop and are generally associated with undivided shale of subunit 3e. Siltite laminated shales are always distal from mineralization and combined with silty fissile shale of subunit 3e probably form the bulk of Gunsteel stratigraphy.

Unit 3e includes silty, fissile grey to black shales to mudstones. These shales are non-siliceous and non-graphitic. They often have a "silty" appearance and may locally grade into siltstone or mudstone. A ubiquitous slaty cleavage is particularly well developed in unit 3e, producing commonly fissile shale, locally to the point of paper thin plates. Unit 3e includes all undivided Gunsteel shales.

UNIT 4 - CONUNDRUM SILTSTONE

Unit 4 overlies the Gunsteel shales but is likely still of Upper Devonian age. This unit probably correlates with the Conundrum Siltstone as described by Cyprus Anvil geologists (Roberts, 1979; Jefferson, 1980), and consists of a siltstone dominant sequence. Main rock types include; grey, brown, to black weathering, grey to black, thick bedded (2-50cm) siltstone. Locally, grey shale interbeds produce a well bedded siltstone- shale lithology. Occasional coarser, gritty beds may be present. The siltstone and shale are often, but not always, mildly calcareous. Contact relationships between units 3 and 4 are not known however, bedding reversals across the contact suggest a fault or unconformity. There is some suggestion of a broad transition between upper Gunsteel Fm. and Conundrum siltstone. This transition is in the form of increasing siltstone content towards the top of the Gunsteel Fm., becoming siltstone dominant in Unit 4. Additional work is necessary to confirm this however, if correct, may be indicative of a marine regression in the uppermost Devonian, allowing a rapid influx of coarser clastic material. The position of unit 4 to the east of the Gunsteel sequence (west dipping), also suggests a regional unconformity or structural emplacement.

D. Mineralization

One significant showing was previously known on the Elf property, the Elf Showing discovered by Cyprus Anvil Mining Corp. in 1979. A second, baritic occurrence was discovered in Joel Creek in 1995 (Farmer, 1995). The following showing descriptions are from Farmer, 1995.

The Elf Showing, located on the Elf Grid and mapped in detail in 1995 consists of massive, well laminated barite at least four metres thick, originally exposed in three trenches and several pits. The barite is host to considerable galena as disseminations and thin (<2 cm, max 10 cm) massive laminations, as well as minor pyrite and trace sphalerite. Additional hand trenching in 1995 extended the known surface strike length of the showing to 50 metres. Mineralization is overlain and underlain by siliceous black shale. Concretion bearing shale is present in the structural hanging wall and a greenish, sericitic shale is locally present in the structural footwall. Barite nodules are also present

for at least 10 metres above and below mineralization. Locally, the immediate footwall to mineralization, particularly at the northwest end, is a coarse, crystalline calcite vein, up to several metres thick, often containing patchy recrystallized galena and sphalerite. The veining may be indicative of a fault on the footwall side of mineralization. Bedding / cleavage relationships suggest the mineralization is on the west limb of an overturned antiform. To the west, within 50 metres, Silurian siltstone has been thrust over the Gunsteel package containing the mineralization. On surface, mineralization grades up to 0.22% Zn, 10.46% Pb, 22.58 g/t Ag over 4.0 metres.

The Joel Creek Showing (Figure 6) was discovered in 1995. Mineralization is exposed in a cliff on the northwest side of Joel Creek, and consists of beds of nodular to blebby barite (5-20%) and laminated pyrite (10-30%) within black, graphitic, siliceous to cherty shale. The mineralized zone is approximately 4 metres thick. Individual baritepyrite beds are 10-20 cm thick. The mineralized zone forms a gossan, enhanced by two Fe-seeps which seem to drain a high angle fault two metres into the hanging wall. The mineralized zone is also characterized by abundant hydrozincite and hemimorphite surface coatings. Bedding strikes 110° to 120° and dips 60° to the southwest. The hanging wall to mineralization consists of a thick succession of black siliceous to cherty shale containing occasional concretions to 10 cm, as well as local mm-scale pyrite laminations and barite nodules. The footwall to mineralization is a grey to black, silty, well laminated shale also containing local mm-scale pyrite laminations and barite nodules. The sequence is cut by a series of high angle faults, subparallel to either bedding or cleavage which have a west side down or, left lateral (strike slip) sense of movement.

Mapping in 1997 discovered a new baritic occurrence, similar to the Joel Creek occurrence described above, in Ian Creek. Here, siliceous shale is host to nodular barite and barite laminations a few centimetres thick. Minor disseminated pyrite is locally present. The baritic interval is approximately 10 metres thick and a sample over 1.5 metres graded, 24% Ba, but was not anomalous in Pb or Zn.

GEOCHEMISTRY

A total of 520 soil samples and one rock chip sample were collected as part of the 1997 exploration program, comprising 246 soil samples and one rock sample from the Ian Creek Grid and 274 soil samples form the northeastern portion of the Joel Creek grid. Soil samples were collected at 25 metre intervals along grid lines and at 50 metre intervals along the baseline. An attempt was made to sample the "B" soil horizon whenever possible. Soil development was generally good on both grids. A hand type soil auger was utilized for soil collection and proved effective for penetrating talus and reaching deep "B" horizons in some areas. Sampling was carried out between July 27 and August 2, 1997.

All samples were placed in Kraft paper bags and sent to Cominco laboratories in Vancouver, B.C. for analysis, where all were analyzed for Pb, Zn, Ag, and total Ba. Sample locations and results for Pb, Zn, Ag, Ba are shown on figures 7-10 for the Ian Creek Grid and figures 11-14 for the Joel Creek Grid. Complete results are listed on the Certificates of Analyses located in Appendix III. Analytical procedures are included in Appendix IV, and Soil Sample Descriptions in Appendix V.

The following section provides an interpretation and description of the geochemical results. Figures 7-14 show plotted values for the elements Pb, Zn, Ag and Ba respectively and anomalous values have been contoured. Grid station numbers are the sample numbers and as such, a separate sample location map is not included. The anomalous threshold was determined by visual examination of the plotted data. A background was estimated and the anomalous threshold was selected at two times the estimated background. Experience in the belt has shown that discrimination of anomalies by visual examination of data is an effective method of determining anomalous thresholds for soil geochemical data. Threshold values for the Ian Creek Grid are; Pb - 75ppm, Zn - 1000ppm, Ag - 1.0ppm and Ba - 7500ppm and for the Joel Creek Grid; Pb - 100ppm, Zn - 1000ppm, Ag - 1.0ppm and Ba 8000ppm.

A. Ian Creek Grid (Figures 7-10)

Soil results for the Ian Creek Grid show are dominated by two striking, high contrast Pb anomalies. The first is located near the northeastern edge of the grid between lines 164N and 168N, and is comprised of two lobate forms which could represent two discrete anomalies. Maximum values exceed 200ppm against a background of about 40ppm. Strong Ba (to 20,000ppm) and weak Ag (to 3ppm) anomalies are coincident with the Pb response. The second anomaly is located between 103E and 104E on lines 160N and 161N, and trends southeastward off the grid. Maximum values exceed 900ppm Pb and the anomaly is coincident with a strong Zn response (to 18,900ppm) and weak Ag (>2ppm). Both anomalies are associated with the eastern siliceous shale horizon. Two previous drill holes were collared near L160N and drilled towards grid east. The first was collared near the end of the line and would not have tested the soil anomaly nor the siliceous shale horizon. The second, collared near 102E on L160N should have tested the anomaly as well as the favourable stratigraphy. This hole did not clearly explain the Pb and Zn anomaly, but did intersect semi-massive to massive barite mineralization. Drill holes are plotted on the geology map (figure 5). Further work is warranted to trace the anomaly southeastwards and to test the strike and dip extent of the barite mineralization.

A narrow, linear Ba anomaly is present at about 101E between lines 164N and 169N and a weak Ag response is coincident with the northern portion of the Ba anomaly. The anomaly follows the eastern contact of the western siliceous shale horizon, and likely indicates the presence of barite. Lack of a Pb or Zn response does not make this anomaly a priority for follow-up.

A circular, high contrast Ba anomaly (to >28,000ppm) is present west of the baseline on line 165N. There is weak, erratic Pb, Zn, and Ag associated with the area anomalous in Ba. Outcrop was not located in this area, however more detailed sampling and prospecting may be warranted to look for a local source.

B. Joel Creek Grid (Figures 11-14)

On the Joel Creek Grid, soil quality is generally very good, with good BF horizons developed over much of the area. The BF horizon is often found at moderate depths however, often >30cm. Where a good BF was not present samples were collected from a light to medium brown B horizon of a grey to brown C horizon with abundant locally derived fragments.

Pb geochemistry (figure 11), displays five main anomalies. Anomaly 1 is a linear anomaly located along the northeastern end of lines 143N to 148N and continues southwards out of the area covered by this report, towards Joel Creek. Maximum value exceeds 600ppm and a weak Ag anomaly (to 3ppm) is coincident. The anomaly is slightly east of and downslope of the eastern siliceous shale horizon. This anomaly has been tested by a previous drill hole near L143N, with negetive results.

Pb anomaly 2 is located near the eastern end of line 150N and may be related to anomaly 1 although it plots as a single line response. This anomaly is very high contrast (to >1100ppm) and is coincident with a strong Ag (6.8ppm) and weak Ba (11,000ppm) response. This anomaly is located in flat, boggy ground with no obvious source.

Pb anomaly 3 is located between 100E and 101E on lines 149N and 150N, and is circular in shape. The response is low contrast (max. 200ppm), but is coincident with the north end of a broad Zn anomaly which exceeds 4000ppm in this area. Bedrock in the area is unmineralized siltite laminated shale. This anomaly may be transported as topography is steep and pyritic/baritic shales are located within 100 metres upslope.

Pb anomaly 4 is a small circular one line response located near 98+25E on line 150N. Maximum value exceeds 600ppm and it is coincident with weak Zn (2000ppm) and Ag (1.5ppm) anomalies. Exposures underlying this anomaly are mineralized with nodular barite and hydrozincite.

Pb anomaly 5 is a large, high contrast anomaly extending from 98E on line 142N to the baseline at 150N. This anomaly parallels the western contact of the western siliceous shale horizon, and exceeds 1000ppm on line 148N and 500ppm on line 142N. A weak Ba (11,000ppm) and moderate Ag (3-4ppm) response is coincident on the baseline at 148N and 150N. From line 142N to 146N a strong Zn response is parallel to and located just downslope from the Pb anomaly. Zn exceeds 11,000ppm on L146N and 6000ppm on L143N. Small, weak Ag is coincident with Pb and Zn on line 146N and

lines 142-143N. This is a strong, multielement response related to prospective siliceous shale stratigraphy, and is untested.

A strong Zn anomaly extends from line 145N between 98E and 99E, southwards past line 142N and out of the area covered by this report. The anomaly exceeds 5000ppm on line 145N at its upslope termination, where it overlies a subcropping ferricrete zone. The ferricrete could be the source and should be examined further.

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CONCLUSIONS

A program including linecutting, geological mapping and soil geochemical sampling was undertaken on the Elf North Group claims in 1997. The program comprised 14.5 line kilometres of linecutting, and geological mapping and 520 soil samples carried out on two grids, the Ian Creek Grid and the northwestern portion of the Joel Creek Grid. Work was carried out between July 23 and August 3, 1997.

Exploration on the Ian Creek Grid has identified two parallel horizons of prospective siliceous shale, both of which contain barite mineralization. The eastern horizon is associated with two high contrast geochemical anomalies. One anomaly, a Pb-Zn-Ag multielement response continues southward off the grid, and has been previously tested by a drill hole which intersected massive barite. This anomaly should be fully delineated by extending the grid southwards. Both anomalies may warrant additional drill testing.

On the Joel Creek grid, a thick section of Gunsteel shales again contains two parallel siliceous shale horizons. The western horizon is the thickest and most prospective. Both horizons are associated with multielement soil anomalies, however the western horizon has a higher contrast Pb-Zn-Ag (Ba) response, a ferricrete zone and remains untested. Two drill holes may be warranted to test this horizon.

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Taylor, G.C., Cecile, M.P., Je	efferson, C.W. and Norford, B.S. (1979): Stratigraphy of the Ware E1/2 map area; in Current Research, Part A, GSC Paper 79-1A, Report 37.

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APPENDIX I:

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COST STATEMENT

ELF NORTH GROUP COST STATEMENT

1. Linecutting (Twin Mountain Enterprises, July 23-Aug.1)

2 men for 2 days (July 23-24) @ \$260.00 each	\$1,040.00
4 men for 1 day (July 25) @ \$260.00 each	
4 men for 2 days (July 27, 28)	
2 men for 2days (July 29, 30)	
6 men for 1 day (July 31) @ \$260.00	
4 men for 1 day (Aug. 1)	

Subtotal\$7,800.00

2. Geology and Geochemistry

a)	Geologist ((R.Farmer)	(July	28-Aug.2).	6 days	@ \$300.00/day	\$1,800.00
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- b) Geologist (S.Smith) (July 28-Aug.2), 6 days @ \$250.00/day \$1.500.00
- c) Soil Samplers(Twin Mtn)(July 27-Aug.2),7 days@\$260.00/day..\$1,820.00

Subtotal\$5,120.00

3. Analytical (Cominco Laboratories, Vancouver)

520 soil samples (Pb,Zn,Ag,Ba) @ \$8.00 each	\$4,160.00
1 rock chip sample (Pb,Zn,Ag,Ba) @ \$8.00	\$8.00

Subtotal\$ 4,168.00

4. Helicopter (Northern Mtn. Helicopters) (July 23-Aug.2)

a)	A-Star, 17.95 hrs. @ \$875.00/hr	\$15,706.25
	Fuel, 3400.5 litres @ \$1.15/litre	

Subtotal\$1	9,616.82
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5.	Accommodation (Room & Board) (Finbow Camp)		
	July 2 80 ma	3 - Aug. 2, 1997 andays @ \$96.30/manday\$7,704.00	
		Subtotal\$7,704.00	
6.	Mob / a)	Demob (Proportionate Share) Personnel (Aug.3) (R.Farmer & S.Smith) 1 day @ \$550.00	
	b)	Fixed Wing Charters (Williston Lake Air) 1/3 of 4 flights (MacKenzie-Finbow)\$1,460.00 Subtotal\$2,920.00	
7.	Repo	ort and Drafting	

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	Subtotal	\$ 1,800.00
b)	Drafting, 3 days @ \$100.00/day	\$300.00
a)	Interpretation & Report Writing 5 days @ \$300.00/day	\$1,500.00



APPENDIX II:

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STATEMENT OF QUALIFICATIONS

I, Randy Farmer, do hereby certify that:

- 1) I am a geologist and have practised my profession for more than 17 years.
- 2) I graduated from Lakehead University in Thunder Bay, Ontario with an Honours Bachelor of Science degree, (Geology), in 1980.
- 3) I conducted the exploration program on the Elf Property, interpreted the results. and authored the report contained herein.
- 4) All data contained within this report and conclusions drawn from it are true and accurate to the best of my knowledge.
- 5) I hold no personal interest, direct or indirect, in the Elf Property or its results, which is the subject of this report.
- 6) I am a Professional Geoscientist registered in the Province of British Columbia (Registration No. 20192).

Randy Farmer, P. Geo. District Manager, Kamloops October, 1997

APPENDIX III:

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CERTIFICATES OF ANALYSES

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TECK/RLF-197

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Job V 97-0703R

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Report data 21 AUG 1997

LAB MO	FIELD NUMBER	Pb	2n	Ъg	Ba (4)
		PP	ppa	ppa	prm

R9715430	#1-5 1254	44	249	.6	2242992

I-insufficient sample X-small sample E-exceeds calibration C-being checked R-revised If requested analyses are not shown , results are to follow

ANALYTICAL METRODS

Fb Aqua regia decomposition / AAS

In Aqua regia decomposition / AAS

Ag Aqua regia decomposition / AAS Ba(4) X-Ray fluorescence / pressed pallet



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TECK/ELF-X97

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Job V 97-06848

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JOEL CR.

LAB NO.	FIELD NUMBER	East+ West-	North+ South-	Pb Ppm	Zn ppm	yd Yd	Ba
		+9600	J151		 98	 <.4	4014
9717451		+9625	J151	25	69	<.4	1531
9717452		+9650	J151	20	279	<.4	5388
9717453		+9675	J151	20	153	<.4	5277
9717454		+9700	J151	33	180	1.2	4254
9717455		+9725	J151	34	423	.7	6352
9717456		+9750	J151	30	215	<.4	3480
9717457		+9775	J151	45	719	<.4	4067
9717458		+9800	J151	38	430	<.4	5003
9717459		+9825	J151	30	2870	1	4388
9717460		+9850	J151	30	182	<.4	3005
9717461		+9875	J151	42	1090	<.4	3620
9717462		+9900	J151	69	537	<.4	4976
9717463		+9925	J151	40	109	<.4	2887
9717464		+9950	J151	38	145	1.3	2440
9717465		+9975	J151	31	169	<.4	3399
9717466		+10000	J15 1	33	159	.8	2462
9717467		+10025	J151	70	279	<.4	5373
9717468		+10050	J151	44	335	<. 4	4103
9717469		+10075	J151	54	838	<.4	5226
9717470		+10100	J1 51	18	6960	<.4	4164
9717471		+10125	J1 51	14	9040	<.4	2708
9717472		+10150	J151	30	205	<.4	3898
9717473		+10175	J151	22	297	<.4	3907
9717474		+10200	J151	29	573	. 8	5207
9717475		+10225	J15 1	24	985	.7	5419
9717476		+10250	J151	60	910	.7	B10716
9717477		+10275	J151	63	710	. 5	8603
9717478		+10300	J151	56	530	<.4	5146

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Report date 15 AUG 1997

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59717530	+9600	J148	1220	133	4.5	B12447
89717531	+9625	J148	365	330	1.1	4961
89717532	+9650	J148	459	224	6.2	4406
89717533	+9675	J148	235	131	1	6030
89717534	+9700	J148	139	72	8	5139
89717535	+9725	J148	173	432	.4	4505
89717536	+9750	J148	104	370	<.4	8139
89717537	+9775	J148	121	74	. 9	6167
89717538	+9800	J148	183	52	.6	5601
89717539	+9825	J148	77	38	.6	4709
89717540	+9850	J148	70	52	.8	4861
89717541	+9875	J148	74	129	.7	5511
89717542	+9900	J148	50	346	. 8	5385
89717543	+9925	J148	5	3640	<.4	1523
89717544	+9950	J148	17	4440	<.4	3373
89717545	+9975	J148	37	693	<.4	5648
89717546	+10000	J148	51	656	. 9	5951
89717547	+10025	J147	39	2100	.5	5596
89717548	+10050	JI47/	60	428	. 9	5320
89717549	+10075	J147	28	1960	.9	3479
89717550	+10100	J147 \100	37	983	. 5	B15061
89717551	+10125	J147 (34	424	<.4	B11116
89717552	+10150	J14	38	688	.4	E1 3761
89717553	+10175	J147	40	674	.5	9224
89717554	+10225 🔨	5147	95	1000	.4	B10306

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LAB NO.	FIELD NUMBER	Rast+	North+	РЬ	Zn	λg	3
		West-	South-	ppm	ppm	ppm	PP
9717555		+10250	J1477	104	2300	.6	B11504
9717556		+10275	J147 (148	67	1640	.6	B11125
9717557		+10300	J147	139	1820	.8	7557
9717558		+9600	J147	40	348	<.4	3232
9717559		+9625	J147	82	1170	.8	3238
9717560		+9650	J147	264	875	.8	5744
9717561		+9675	J147	141	285	.4	5781
9717562		+9700	J147	161	361	.5	6385
9717563		+9725	J147	57	200		3687
9717564		+9750	J147	45	76	<.4	3504
9717565		+9775	J147	131	264		4586
9717566		+9800	J147	98		<.4	6353
_					246	.7	
9717567		+9825	J147	44	376	<.4	6671
9717568		+9850	J147	36	965	.5	6503
9717569		+9875	J147	37	524	.7	6533
9717570		+9900	J147	33	716	.6	4950
9717571		+9925	J147	25	1780	.7	5792
9717572		+9950	J147	31	1910	.6	5516
9717573		+9975	J14 7	32	1560	.5	4956
9717574		+10000	J14 7	49	2080	. 6	5358
9717575		+10025	J14 7	21	2420	.4	2053
717576		+10050	J147	37	2260	.8	4034
717577		+10075	J147	37	1040	2.1	2521
717578		+10100	J14 7	24	1200	. 8	5332
717579		+10125	J147	30	1450	.4	6999
9717580		+10150	J14 7	29	2330	.6	5545
9717581		+10175	J14 7	46	82	<.4	2232
9717582		+10200	J147	176	426	, 8	7442
9717583		+10225	J147	34	20	2.5	1937
717584		+10250	J147	167	133	1.5	3657
9717585		+10275	J14 7	137	164	.7	3649
9717586		+10300	J147	117	664	. 6	6985
717592		+9600	+14050	26	77	<.4	2275
717593		+9500	+14150	15	77	<.4	1798
717594		+9600	+14250	24	177	<.4	3099
717595		+9600	+14350	105	371	<.4	2906
717596		+9600	+14450	17	224	<.4	2858
717597		+9600	+14550	32	300	<.4	2633
717598		+9600	+14650	146	572	1	4684
717599		+9600	+14750	35	322	.4	2916
717600		+9600	+14850	238	184	1	4585
717601		+9600	+14950	55	128	.8	2652
717602		+9600	+15050	25 .	160	<.4	2995
717603		+9500	J149	238	176	.7	4224
717604		+9625	J149	105	234	<.4	4273
717605		+9650	J149	45	225	<.4	2267
717606		+9725	J149	41	231	.8	2229
		+9750	J149	55	198		3759
717607		+ 7 / 30	0743	22	TAG	. 9	3/33

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897 17610 97 17511 97 17512 97 17513 97 17515 97 17515 97 17516 97 17517 97 17518 97 17521 97 17522 97 17523 97 17525 97 17525 97 17526 57 17529 57 17529 57 17529 57 17529 57 17533 57 17533 57 17534 57 17534 57 17535 57 17538 57 17558 57 175758 57 175758 57 175758 57 175758 57 175758 57 175758 57 1757588 57 17575888 57 1757588888888888888888888888888888888	+9 +9 +9 +9 +9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	825 850 875 900 925 975 900 975 9000 975 9000 975 9000 975 9000 975 9000 975 9000 975 9000 925 9000 925 9000 925 9000 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 925 9200 <th>J149 J149 J149 J149 J149 J149 J149 J149</th> <th>18 5 70 131 104 96 142 214 162 158 129 115 37 105 70 41 61 61</th> <th>168 159 749 658 2060 1430 4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240</th> <th><.4 <.4 <.4 .7 <.6 .6 .7 .8 .4 .8 .4 .8 .5 .9 .4</th> <th>4644 1449 4586 4058 4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041</th>	J149 J149 J149 J149 J149 J149 J149 J149	18 5 70 131 104 96 142 214 162 158 129 115 37 105 70 41 61 61	168 159 749 658 2060 1430 4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240	<.4 <.4 <.4 .7 <.6 .6 .7 .8 .4 .8 .4 .8 .5 .9 .4	4644 1449 4586 4058 4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
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S9717612 S9717612 S9717613 S9717615 S9717617 S9717617 S9717618 S9717620 S9717621 S9717622 S9717623 S9717625 S9717626 S9717627 S9717628 S9717629 S9717629 S9717631 S9717633 S9717634 S9717635 S9717636 S9717637 S9717638 S9717637 S9717638 S9717637 S9717640 S9717642 S9717645 S9717648 S9717647 S9717648 S9717649 S9717650 S9717651	+9 +9 +9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	9875 9900 925 9950 975 9000 925 9000 925 9000 925 9000 925 9000 925 9000 925 9000 925 9000 9250 9000 9250 9000 9250	J149 J149 J149 J149 J149 J149 J149 J149	5 70 131 104 96 142 214 162 168 129 115 37 105 70 41 61 67	159 749 658 2060 1430 4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240	<.4 <.4 .7 <.4 .6 .7 .8 .4 .8 .4 .8 .6 .9 .4	4586 4058 4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717513 S9717515 S9717515 S9717517 S9717517 S9717517 S9717517 S9717518 S9717521 S9717522 S9717523 S9717525 S9717526 S9717527 S9717528 S9717529 S9717529 S9717531 S9717533 S9717534 S9717635 S9717636 S9717637 S9717638 S9717637 S9717640 S9717647 S9717648 S9717648 S9717647 S9717648 S9717649 S9717650 S9717651	+9 +9 +9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	9875 9900 925 9950 975 9000 925 9000 925 9000 925 9000 925 9000 925 9000 925 9000 925 9000 9250 9000 9250 9000 9250	J149 J149 J149 J149 J149 J149 J149 J149	70 131 104 96 142 214 162 168 129 115 37 105 70 41 61 67	749 658 2060 1430 4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240	<.4 .7 .6 .6 .7 .8 .4 .8 .4 .8 .5 .9 .4	4586 4058 4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
\$9717614 \$9717615 \$9717617 \$9717618 \$9717618 \$9717620 \$9717621 \$9717622 \$9717623 \$9717625 \$9717625 \$9717627 \$9717628 \$9717629 \$9717629 \$9717631 \$9717633 \$9717634 \$9717635 \$9717636 \$9717637 \$9717638 \$9717639 \$9717640 \$9717641 \$9717642 \$9717645 \$9717645 \$9717648 \$9717648 \$9717649 \$9717651	+9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	925 950 975 9000 9025 9050 9075 9050 9075 9100 9125 9150 9225 9250 9255 9250 9255 9250 925 925 925 925 925 925 925 925 925 925	J149 J149 J149 J149 J149 J149 J149 J149	104 96 142 214 162 158 129 115 37 105 70 41 61 61	658 2060 1430 4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240	<.4 .7 .6 .6 .7 .8 .4 .4 .8 <.4 .5 .9 <.4	4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717515 S9717515 S9717517 S9717517 S9717518 S9717518 S9717521 S9717522 S9717523 S9717523 S9717523 S9717523 S9717524 S9717525 S9717529 S9717529 S9717531 S9717533 S9717533 S9717534 S9717535 S9717536 S9717637 S9717638 S9717637 S9717638 S9717640 S9717642 S9717645 S9717645 S9717648 S9717649 S9717649 S9717650 S9717651	+9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	925 950 975 9000 9025 9050 9075 9050 9075 9100 9125 9150 9225 9250 9255 9250 9255 9250 925 925 925 925 925 925 925 925 925 925	J149 J149 J149 J149 J149 J149 J149 J149	104 96 142 214 162 158 129 115 37 105 70 41 61 61	2060 1430 4720 2630 2320 3560 2870 758 1740 2690 1530 1240	.7 <.4 .6 .7 .8 .4 .4 .8 <.4 .6 .9 <.4	4432 3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717515 S9717515 S9717517 S9717517 S9717518 S9717518 S9717521 S9717522 S9717523 S9717523 S9717523 S9717523 S9717524 S9717525 S9717529 S9717529 S9717531 S9717533 S9717533 S9717534 S9717535 S9717536 S9717637 S9717638 S9717637 S9717638 S9717640 S9717642 S9717645 S9717645 S9717648 S9717649 S9717649 S9717650 S9717651	+9 +9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	9950 9975 9000 9025 9050 9075 9100 125 9150 9255 9200 9225 9255 9300	J149 J149 J149 J149 J149 J149 J149 J149	96 142 214 162 168 129 115 37 105 70 41 61 61	1430 4720 2420 2630 3560 2870 758 1740 2690 1530 1240	<.4 .6 .7 .8 .4 .4 .8 <.4 .5 .9 <.4	3644 3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717516 S9717517 S9717518 S9717518 S9717521 S9717522 S9717523 S9717525 S9717526 S9717527 S9717528 S9717529 S9717529 S9717529 S9717529 S9717531 S9717533 S9717533 S9717533 S9717535 S9717536 S9717537 S9717538 S9717539 S9717637 S9717638 S9717640 S9717642 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+9 +10 +10 +10 +10 +10 +10 +10 +10 +10 +10	975 0000 025 0050 075 100 125 150 225 250 275 300	J149 J149 J149 J149 J149 J149 J149 J149	142 214 162 168 129 115 37 105 70 41 61 67	4720 2420 2630 2320 3560 2870 758 1740 2690 1530 1240	.6 .7 .8 .4 .8 <.4 .6 .9 <.4	3078 3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717617 S9717618 S9717620 S9717621 S9717622 S9717623 S9717625 S9717626 S9717627 S9717628 S9717627 S9717628 S9717627 S9717628 S9717631 S9717633 S9717633 S9717633 S9717636 S9717637 S9717638 S9717637 S9717638 S9717640 S9717641 S9717642 S9717643 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10 +10 +10 +10 +10 +10	0000 025 0050 075 100 125 150 250 225 250 275 300	J149 J149 J149 J149 J149 J149 J149 J149	214 162 168 129 115 37 105 70 41 61 61	2420 2630 2320 3560 2870 758 1740 2690 1530 1240	.6 .7 .8 .4 .8 <.4 .6 .9 <.4	3516 3017 3340 3249 5101 4580 5328 9426 7041
S9717518 S9717521 S9717522 S9717523 S9717524 S9717525 S9717526 S9717527 S9717528 S9717529 S9717529 S9717531 S9717534 S9717534 S9717535 S9717637 S9717638 S9717639 S9717638 S9717639 S9717640 S9717642 S9717643 S9717645 S9717645 S9717648 S9717648 S9717648 S9717648 S9717648 S9717650 S9717651	+10 +10 +10 +10 +10 +10 +10 +10 +10 +10	025 050 075 100 125 150 175 200 225 250 275 300	J149 J149 J149 J149 J149 J149 J149 J149	162 168 129 115 37 105 70 41 61 61	2630 2320 3560 2870 758 1740 2690 1530 1240	.7 .8 .4 .8 <.4 .6 .9 <.4	3017 3340 3249 5101 4580 5328 9426 7041
\$9717.19 \$9717620 \$9717621 \$9717623 \$9717624 \$9717625 \$9717626 \$9717627 \$9717628 \$9717629 \$9717631 \$9717633 \$9717633 \$9717634 \$9717635 \$9717636 \$9717637 \$9717638 \$9717638 \$9717637 \$9717642 \$9717644 \$9717645 \$9717645 \$9717647 \$9717648 \$9717648 \$9717649 \$9717650 \$9717651	+10 +10 +10 +10 +10 +10 +10 +10 +10 +10	050 075 100 125 150 275 250 275 300	J149 J149 J149 J149 J149 J149 J149 J149	168 129 115 37 105 70 41 61 67	2320 3560 2870 758 1740 2 <i>690</i> 1530 1240	.8 .4 .8 <.4 .6 .9 <.4	3340 3249 5101 4580 5328 9426 7041
S9717620 S9717621 S9717622 S9717623 S9717625 S9717626 S9717627 S9717628 S9717629 S9717631 S9717633 S9717633 S9717636 S9717637 S9717638 S9717637 S9717638 S9717637 S9717638 S9717640 S9717642 S9717644 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10 +10 +10 +10 +10 +10	075 100 125 150 275 200 225 250 275	J149 J149 J149 J149 J149 J149 J149 J149	129 115 37 105 70 41 61 67	3560 2870 758 1740 2 <i>690</i> 1530 1240	.4 .8 <.4 .6 .9 <.4	3249 5101 4580 5328 9426 7041
\$9717521 \$9717522 \$9717522 \$9717524 \$9717525 \$9717529 \$9717529 \$9717529 \$9717531 \$9717533 \$9717534 \$9717635 \$9717636 \$9717637 \$9717638 \$9717639 \$9717636 \$9717637 \$9717638 \$9717637 \$9717642 \$9717644 \$9717645 \$9717645 \$9717647 \$9717648 \$9717649 \$9717650 \$9717651	+10 +10 +10 +10 +10 +10 +10 +10 +10	100 125 150 275 250 275 300	J149 J149 J149 J149 J149 J149 J149 J149	115 37 105 70 41 61 67	2870 758 1740 2 <i>690</i> 1530 1240	.4 .8 <.4 .6 .9 <.4	5101 4580 5328 9426 7041
S9717622 S9717623 S9717625 S9717627 S9717627 S9717628 S9717629 S9717631 S9717633 S9717633 S9717635 S9717636 S9717637 S9717638 S9717637 S9717638 S9717637 S9717638 S9717640 S9717642 S9717645 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10 +10 +10 +10	125 150 275 250 275 300	J149 J149 J149 J149 J149 J149 J149	37 105 70 41 61 67	758 1740 2690 1530 1240	8. <.4 .6 .9 <.4	4580 5328 9426 7041
S9717623 S9717625 S9717627 S9717627 S9717628 S9717629 S9717631 S9717633 S9717634 S9717635 S9717636 S9717637 S9717638 S9717639 S9717636 S9717640 S9717642 S9717645 S9717645 S9717645 S9717647 S9717648 S9717649 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10 +10 +10	150 175 200 225 250 275 300	J149 J149 J149 J149 J149	105 70 41 61 67	1740 2690 1530 1240	<.4 .6 .9 <.4	5328 9426 7041
S9717624 S9717625 S9717627 S9717627 S9717628 S9717629 S9717631 S9717633 S9717634 S9717635 S9717636 S9717637 S9717638 S9717639 S9717640 S9717642 S9717645 S9717645 S9717645 S9717645 S9717645 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10 +10	175 200 225 250 275 300	J149 J149 J149 J149	70 41 61 67	2690 1530 1240	.6 .9 <.4	9 426 7041
S9717625 S9717627 S9717628 S9717628 S9717629 S9717631 S9717631 S9717633 S9717635 S9717636 S9717637 S9717638 S9717637 S9717638 S9717640 S9717642 S9717645 S9717645 S9717647 S9717648 S9717649 S9717650 S9717651	+10 +10 +10 +10 +10	200 225 250 275 300	J149 J149 J149	41 61 67	1530 1240	.9 <.4	7041
59717625 59717627 59717628 59717628 59717629 59717631 59717631 59717633 59717635 59717635 59717637 59717646 59717642 59717644 59717645 59717645 59717647 59717649 59717651	+10 +10 +10 +10	225 250 275 300	J149 J149	61 67	1240	<.4	
59717627 39717628 59717629 59717630 59717631 59717633 59717633 59717635 59717637 59717637 59717640 59717642 59717645 59717645 59717645 59717647 59717649 59717651	+10 +10 +10	250 275 300	J149	67			6896
39717628 39717629 39717631 39717631 39717633 39717635 39717636 39717637 39717638 39717639 39717636 39717637 39717638 39717640 39717642 39717642 39717645 39717645 39717647 39717648 39717649 39717650 39717651	+10 +10	275 300			443		
39717529 39717531 39717631 39717633 39717534 39717535 39717635 39717636 39717637 39717638 39717638 39717640 39717640 39717642 39717645 39717645 39717647 39717648 39717649 39717650 39717651	+10	300	J149			.4	4216
39717631 39717631 39717633 39717635 39717636 39717636 39717637 39717638 39717640 39717642 39717645 39717645 39717645 39717647 39717648 39717649 39717650 39717651				93	2670	1	8649
39717631 39717633 39717633 39717635 39717636 39717637 39717638 39717640 39717640 39717645 39717645 39717645 39717647 39717648 39717649 39717650 39717651	+ 9	600	J149	76	2170	.4	5317
9717632 9717633 9717635 9717635 9717637 9717637 9717640 9717640 9717642 9717645 9717645 9717647 9717648 9717649 9717650 9717651		· - •	J150	270	39	3	B11154
9717633 9717635 9717635 9717637 9717637 9717638 9717640 9717640 9717642 9717645 9717645 9717645 9717647 9717648 9717649 9717650 9717651	+ 9	625	J150	9	29	1.7	3544
9717534 9717635 9717637 9717637 9717638 9717640 9717640 9717642 9717645 9717645 9717645 9717647 9717648 9717649 9717650 9717651	+9	650	J150	313	179	1.1	8126
39717635 39717636 39717637 39717638 39717640 39717642 39717645 39717645 39717647 39717648 39717650 39717651	+9	675	J150	91	15	.7	3858
9717636 9717637 9717638 9717640 9717640 9717642 9717642 9717643 9717645 9717645 9717647 9717648 9717649 9717650 9717651	+9	700	J150	23	61	3,5	6737
9717637 9717638 9717640 9717642 9717642 9717642 9717644 9717645 9717645 9717647 9717648 9717648 9717649 9717650	+9	725	J150	28	259	<.4	3744
9717638 9717640 9717640 9717642 9717642 9717644 9717645 9717645 9717647 99717647 99717648 9717649 99717650	+9	750	J150	30	248	<.4	4342
9717640 9717642 9717642 9717644 9717644 9717645 9717645 9717647 99717649 9717649 9717650	+9	775	J150	96	1760	.5	3940
9717640 9717642 9717644 9717644 9717645 9717645 9717647 9717649 9717650 9717651	+9	800	J150	667	1650	1,5	4281
9717642 9717644 9717644 99717645 9717645 9717647 9717649 9717650 9717651	+9	825	J150	298	2100	1.2	3943
9717642 9717644 9717645 9717645 9717647 9717648 9717649 9717650 9717651	+9	850	J150	153	1340	.9	3785
9717644 9717645 9717645 9717647 9717648 9717649 9717650 9717651	+9	875	J150	90	796	<.4	3484
9717644 9717645 9717645 9717647 9717648 9717649 9717650 9717651		900	J150	38	197	<.4	2654
9717644 9717645 9717647 9717648 9717649 9717650 9717651		925	J150	62	212	<.4	2295
9717645 9717647 9717648 9717649 9717650 99717651		950	J150	24	114	1.5	1778
9717647 9717648 9717649 9717650 9717651		975	J150	76	1180	<.4	4197
9717647 9717648 9717649 9717650 9717651	+10		J150	83	382	<.4	2627
9717648 9717649 9717650 9717651	+10		J150	55	202	<.4	4251
9717649 9717650 9717651	+10		J150 J150	104	256	<.4 <.4	3530
9717650 9717651			J150 J150		1070		4804
97176 51	+10			115		.4	
	+10		J150	115	2800	.7	3981
	+10		J150	89	730	.5	5119
<u>an n</u>	+10		J150	70	1860	<.4	4610
22023	+10		J150	86	1140	, 6	4944
9717654	+10		J150	57	2540	.4	4408
9717655	+10		J150	87	1350	.7	4961
9717656	+10		J150	1140	254	6.8	211534
9717657	+10	300	J150	192	696	1	5836
9717658	+9	600	J146	24	325	<.4	2537
9717659		625	J146	27	279	<.4	2717
9717660		650	J146	153	398	.7	2927
9717561	+ 9 -	675	J146	107	359	. 8	5182
9717662	+9 +9	700	J146	182	561	1.3	5709

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LAB NO.	FIELD NUMBER	East+	North+	РЪ	Zn	λg	1
		West-	South-	ppm	ppm	ppm	P
S9717663		+9725	J146	207	1010	1.3	611
S9717664		+9750	J146	317	997	2.2	955
89717665		+9775	J146	<4	E1160 0	.5	137
\$9717666		+9800	J146	44	198	<.4	436
89717667		+9825	J146	79	274	<.4	657
S9717668		+9850	J146	66	221	<.4	5531
S9717669		+9875	J146	48	382	1	6174
S971767 0		+9900	J146	52	813	<.4	3634
S9717671		+9925	J146	19	437	<.4	602
S9717672		+9950	J146	22	174	<.4	3932
89717673		+9975	J146	26	429	<.4	5276
S9717674		+10000	J146	16	1760	. 6	4433
S9717675		+10025	J146	19	2010	.5	3391
89717676		+10050	J146	35	1030	<.4	7073
S9717677		+10075	J14 6	30	439	<.4	5530
S9717678		+10100	J146	29	103	<.4	3490
S9717679		+10125	J146	. 47	637	.6	6682
S971768 0		+10150	J146	. 29	285	1.6	1982
89717681		+10175	J146	624	440	.5	5058
59717682		+10200	J146	270	525	.7	6080
S9717683		+10225	J146	188	282	.7	3036
\$9717684		+10250	J146	243	305	<.4	5101
89717685		+10275	J146	35	183	.4	5044
\$9717686		+10300	J146	29	830	<.4	2757
S9717687		+9600	J145	17	233	<.4	2784
89717688		+9625	J145	17	215	<.4	2547
89717689		+9650	J145	30	720	.7	1631
S971769 0		+9675	J145	44	301	<.4	2245
89717691		+9725	J145	35	1340	.5	2345
89717692		+9750	J145	40	809	, 5	276
89717693		+9775	J145	148	3310	. 9	502
89717694		+9800	J145	54	518	<.4	485(
89717695		+9825	J145	33	250	<.4	6300
89717696		+9850	J145	21	1890	<.4	5691
S9717697		+9875	J145	25	3240	<.4	2391
89717698		+9900	J145	28	5960	.6	5274
89717699		+9925	J145	31	1570	.9	5030
S9717700		+9950	J145	19	1850	.4	3552
S9717701		+9975	J145	23	2400	.7	3700
89717702		+10025	J145	11	825	<.4	5769
59717703		+10050	J145	18	2060	.5	3893
S9717704		+10075	J145	36	1080	.6	B1113
897177 05		+10100	J145	113	49	<.4	2420
S9717706		+10125	J145	23	379	<.4	2929
59717707		+10150	J145	280	478	<.4	340:
89717708		+10175	J145	79	775	.4	2781
89717709		+10200	J145	83	653	.5	2800
89717710		+10225	J145	119	186	3	330:
89717711		+10250	J145	99	657	1.1	2353
59717712		+10275	J145	53	285	1.8	3123
89717713		+10300	J145	41	1200	.7	3064
89717714		+9600	J144	18	595	.4	2131
89717715		+9625	J144	25	210	<.4	1649
89717716		+9650	J144	20	201	.4	2533

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LAB NO.	FIELD NUMBER	Bast+	North+	Pb	Zn	λg	Ba
		West-	South-	ppm	ppm	ppm	ppm
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89717717		+9675	J144	16	256	<.4	2865
S9717718		+9700	J144	16	123	<.4	1905
89717719		+9725	J144	20	170	<.4	2769
89717720		+9750	J144	22	152	<.4	2513
89717721		+9775	J144	19	257	<.4	2495
89717722		+9800	J144	37	1010	<.4	3257
S9717723		+9825	J144	106	295	<.4	2578
89717724		+9850	J144	95	402	<.4	2132
S9717725		+9875	J144	89	796	<.4	4010
89717726		+9900	J144	124	852	<.4	3149
S9717727		+9925	J144	115	255	<.4	3377
89717728		+9950	J144	19	2010	.4	2461
89717729		+9975	J144	128	2540	1	5371
9971773 0		+10000	J144	26	144	<.4	2864
5971773 1		+10025	J144	25	134	<.4	3072
\$9717732		+10050	J144	14	331	<.4	1651
89717733		+10075	J144	21	618	.8	1659
S9717734		+10100	J144	47	387	<.4	2634
89717735		+10125	J144	88	155	<.4	3396
89717736		+10150	J144	56	99	.8	2007
89717737		+10175	J144	132	369	<.4	2563
89717738		+10200	J144	174	454	1.7	3291
89717739		+9600	J143	23	259	<.4	3562
89717740		+9625	J143	146	688	<.4	4168
8971774 1		+9650	J143	82	295	<.4	3658
89717742		+9675	J14 3	85	472	<.4	3022
89717743		+9700	J143	143	402	<.4	3150
89717744		+9725	J143	30	200	<.4	2570
89717745		+9750	J143	20	246	<.4	1603
\$9717746		+9775	J143	12	153	.4	1484
89717747		+9800	J143	43	637	<.4	2633
9971774 8		+9825	J143	242	6520	2.8	2324
89717749		+9850	J143	95	3500	.7	6314
89717750		+9875	J143	70	6860	.6	4129
89717751		+9900	J143	27	3160	<.1	4084
89717752		+9925	J143	67	414	<. 5	3498
89717753		+9950	J143	62	1770	<.4	4233
89717754		+9975	J143	26	974	<.4	3050
89717755		+10000	J143	12	326	<.4	3274
89717756		+10025	J143	<4	125	<.4	1944
89717757		+10050	J143	247	42	<.4	2526
8971775 8		+10075	J143	13	134	<.4	1687
S9 717759		+10100	J143	113	267	.9	2722
8971776 0		+10125	J143	107	214	. 8	3628-
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89717764		+9600	J142	13	138	<.4	2771
89717765		+9625	J142	16	121	<.4	2739
89717766		+9650	J142	18	185	<.4	2679
89717767		+9675	J14 2	22	186	<.4	2719
S9717768		+9700	J142	63	324	<.4	3078
89717769		+9725	J142	46	340	.7	3017
89717770		+9750	J142	95	582	<.4	3364

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B NO.	FIELD NUMBER	Rant+ West-	North+ South-	Pb Ppm	Zn ppm	yba Ya	Ba
17771		+9775	J142	29	431	<.4	2390
17772		+9800	J142	593	229	3.3	7976
17773		+9825	J142	74	1510	.4	4211
17774		+9850	J142	60	1120	.4	5374
17775		+9875	J142	48	112	<.4	B1 1360
17776		+9900	J142	29	1970	<.4	5374
17777		+9925	J142	16	1370	<.4	2930
17778		+9950	J142	32	736	. 9	5183

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2338	<.4	170	27	J141	+9600	S9717788
2652	<.4	287	112	J141	+9625	59717789
2329	<.4	242	42	J141	+9650	59717790
3469	<.4	315	129	J141	+9675	\$9717791
2800	<.4	105	42	J141	+9700	S9717792
3815	<.4	203	63	J141	+9725	S9717793
4106	<.4	301	78	J141	+9750	59717794
3433	<.4	210	57	J141	+9775	\$9717795

S9717813	+9600	J140	20	222	<.4	1912
(J) 1/01J	19000	0110				

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	λg	Zn	₽Ъ	North+	Bast+	FIELD NUMBER	LAB NO.
	ppm	ppm	ppm	South-	West-		
		وينت قانيو				المیں میں 10 میں ہوا ^ر حال	
						_	
				10.0		•	ومقترقين
339	. 6	230	13		+9800		9718334
730	.5	257	11	1168	+9825		9718335
305	.7	216	15	I168	+9850		9718336
271	. 5	143	14	ILGB	+9875		9718337
191	.8	238	19	I168	+9900		9718338
467	.6	163	18	I168	+9925		9718339
341	.9	90	56	I168	+9950		9718340
420	.6	132	22	I168	+9975		9718341
530	1.1	159	14	I168	+10000		9718342
167	<.4	115	7	I168	+10025		9718343
714	1	434	52	I168	+10050		9718344
355	. 8	225	46	I168	+10075		9718345
81173	1.9	378	67	I168	+10100		9718346
302	2.1	237	61	I168	+10125		9718347
413	.7	215	42	I15 8	+10150		9718348
531	1.5	373	62	I168	+10175		9718349
506	.6	191	42	I16 8	+10200		9718350
723	1.5	691	63	I168	+10225		9718351
697	. 5	258	34	I168	+10250		9718352
B132 3	1.2	845	70	I16 B	+10300		9718353
B125 5	<.4	747	87	I168	+10325		9718354
B1115	1.1	904	75	I168	+10350		9718355
B1164	1.2	693	85	I168	+10375		9718356
B1 275	1.2	635	68	I168	+10400		9718357
321	<.4	167	8	I16 7	+9800		9718358
150	<.4	120	8	I167	+9825		9718359
433	<.4	155	9	I16 7	+9850		9718360
153	, 8	139	7	1167	+9875		9718361
140	<.4	119	4	1167	+9900		9718362
153	.6	142	10	1167	+9925		9718363
256	.5	120	9	1167	+9950		9718364
491	.6	215	23	1167	+9975		9718365
456	.5	258	21	1167	+10000		9718366
512	.7	304	32	1167	+10025		9718367
447	.7	209	20	1167	+10050		9718368
475	.7	295	25	1167	+10075		9718369
659	1.2	298	46	1167	+10100		9718370
B1126	. 6	504	53	1167	+10125		9718371
715	1	325	38	1167	+10150		9718372
596	1.2	439	55	1167	+10175		9718373
399	.7	243	29	1167	+10200		9718374
401	.4	331	29	I16 7	+10225		9718375
640	.7	605	40	I16 7	+10250		9718376
670	1.1	588	32	I167	+10275		9718377
B1148	1.3	590	198	I167	+10300		9718378
B1328	. 9	548	76	1167	+10325		9718379
E2008	2.5	577	275	I167	+10375		9718380

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LAB NO.	FIELD NUMBER	Rast+	North+	PD	Zn	λg	3
		West-	South-	p þm	ppm	ppm	PP
9718381		+10400	I167	103	587	1.8	7574
9718382		+10000	+16650	33	231	.7	4498
9718383		+10000	+16750	5	183	. 6	1996
9718384		+10000	+16850	4	37	.6	1407
9718385		+10000	+16050	31	164	1.1	5490
9718386		+10000	+16150	29	207	1.7	7486
9718387		+10000	+16250	11	21	. 9	2280
9718388		+10000	+16350	25	139	1.1	6056
9718389		+10000 +9800	+16450	23	297	.6	B10109
9718390		+9825	I164 I164	25	229	1	4778
9718391 9718392		+9850	I164	87	254	.8	8387
9718393		+9875	I164 I164	43 18	251 138	1 .7	9083 7498
9718394		+9900	1164	11	233	.7	7643
9718395		+9925	1164	29	3510	1.6	E13526
9718396		+9950	I164	14	793	.8	812557
718397		+9975	I164	5	231	.5	3509
718398		+10000	I164	17	170	1	5759
718399		+10025	I164	22	162	1.8	5164
718400		+10050	I164	22	294	. 9	6269
718401		+10075	I164	12	317	.7	9574
718402		+10150	I164	17	1560	<.4	1709
718403		+10175	I164	18	545	<.4	2161
718404		+10200	I164	19	1280	.7	3626
718405		+10225	I164	18	503	<.4	3944
718406		+10250	I164	18	736	. 5	1882
718407		+10275	I164	49	66	.5	1993
718408		+10300	I164	46	322	<.4	5835
718409		+10325	I164	33	140	1	2481
718410		+10350	1164	90	203	.6	3936
718411		+10375	1164	70	240	<.4	E13740
718412		+10400	I164	52	184	<.4	6037
718413		+9800	I165	95	225	<.4	6983
718414		+9825	I165	65	186	.6	B12527 E28982
718415		+9850 +9875	I165 I165	70 102	127 330	.9 1.5	9106
		+9900		41	152		B15470
718417		+9925	I165 I165	40	777	4. > و,	B13867
718419		+9950	1165	52	293	<.4	B21393
718420		+9975	I165	38	814	.9	B12068
718421		+10025	I165	20	245	<.4	3553
718422		+10050	1165	39	699	.5	9525
718423		+10075	I165	30	257	<.4	3681
718424		+10100	I165	29	616	.6	4488
718425		+10150	I165	36	236	<.4	3754
718426		+10175	I165	31	610	.5	4263
718427		+10200	I165	20	974	.6	3647
718428		+10225	I165	30	1660	. 4	3968
718429		+10250	I165	15	2100	.7	2236
718430		+10275	1165	39	429	.4	4145
718431		+10300	I165	32	2190	.6	3085
718432		+10325	1165	35	51	2	1628
		+10350	I165	72	81	.6	3535

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LAB NO. FIELD N		North+	Pb	Zn	λg	E
	West-	South-	Ppm	P pm	ppm	PP
9718435	+10400	I165	59	113	2.5	2424
9718436	+9800	I16 9	15	207	<.4	2493
718437	+9825	I169	23	268	.4	2687
9718438	+9850	I169	19	216	<.4	3918
718439	+9875	I169	20	241	.5	2552
9718440	+9900	1169	17	248	<.4	2179
718441	+9925	II69	22	357	<.4	3149
718442	+9950	1169	75	937	<.4	B23866
718443	+9975	I169	28	315	. 9	7507
718444	+10000	I169	24	213	3.2	3610
9718445	+10025	I169	60	565	1.9	2008
718446	+10050	I169	21	135	<.4	E1182 9
0718447	+10075	I169	17	142	<.4	6237
718448	+10100	I16 9	80	645	1.2	E1 0030
718449	+10125	I169	68	510	<.4	9975
718450	+10150	1169	40	336	<.4	9276
718451	+10175	I169	53	643	<.4	5803
718452	+10200	I169	47	448	<.4	7636
718453	+10225	I169	41	500	<.4	B1042 3
718454	+10250	I169	28	373	<.4	5866
718455	+10275	I169	42	658	<.4	<u>B1091</u>
718456	+10300	I169	38	387	<.4	8265
718457	+10325	I16 9	54	618	<.4	E1084 4
718458	+10350	I169	66	546	. 8	8886
718459	+10375	I16 9	56	746	.7	8822
718460	+10400	I159	59	653	. 8	9674
718461	+9800	I156	62	732	- 4	4965
718462	+9825	I166	14	111	<.4	3958
718463	+9850	I166	15	256	<.4	5870
718464	+9875	I156	14	402	<.4	5363
718465	+9900	I1 56	14	269	<.4	5355
718466	+9925	I166	17	169	.4	3418
718467	+9950	I166	18	207	<.4	4346
718468	+9975	I166	10	187	. 9	4540
718469	+10000	I166	8	218	<.4	2993
718470	+10025	I166	16	198	<.4	4618
718471	+10050	1166	24	241	<.4	4805
718472	+10075	I166	16	164	<.4	4466
718473	+10100	I166	46	390	. 7	B11007
718474	+10125	I166	42	342	<.4	6103
718475	+10150	I1 <i>55</i>	51	296	.7	4377
718476	+10175	I166	36	390	.4	6455
718477	+10200	I166	42	357	<.4	6932
718478	+10250	I166	215	323	.4	8953
718479	+10275	I166	308	189	1.9	4792
718480	+9800	I16 3	38	97	<.4	7170
718481	+9825	I16 3	18	123	<.4	3583
718482	+9850	I163	19	138	.4	3347
718483	+9875	I16 3	15	47	<.4	3724
718484	+9900	I16 3	52	158	.7	6803
718485	+9925	I16 3	31	337	. 8	2360
718486	+9950	I163	21	420	.5	6070
718487	+9975	I163	31	557	.9	6169
718488	+10000	I16 3	9	192	<.4	2224

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LAB NO.	FIELD NUMBER	Bast+	North+	Pb	Zn	λg	E
		West-	South-	ppm	ppm	bbm	PF
9718489		+10025	I163	15	54	<.4	3389
9718490		+10050	I163	30	318	.5	3974
9718491		+10075	I163	24	362	<.4	3101
9718492		+10100	I163	30	158	<.4	2824
9718493		+10125	I163	10	146	.5	3306
9718494		+10150	I163	31	250	1	3033
9718495		+10175	I163	29	413	.5	7650
9718496		+10200	I163	21	576	1	4424
9718497		+10225	I163	20	395	<.4	3918
9718498		+10250	I163	27	172	<.4	4620
9718499		+10275	I163	43	275	.6	5025
9718500		+10300	I163	58	190	1.3	5501
9718501		+10325	I163	52	324	<.4	7024
9718502		+10350	I163	34	36	.4	5415
		+10375					
9718503			I163	57	417	-4	7892
9718504		+10400	I163	45	540	.5	7120
9718505		+9800	I162	28	160	<.4	4133
9718506		+9825	I162	47	148	<	691
9718507		+9850	1162	19	92	<.1	3983
9718508		+9875	I162	23	175	<.4	3359
9718509		+9900	I162	37	167	.5	4803
9718510		+9925	I162	22	84	. 9	3140
9718511		+9950	1162	11	38	<.4	5804
9718512		+9975	I162	25	180	.4	6252
9718513		+10000	I162	28	99	<.4	4926
9718514		+10025	I162	26	135	<.4	4980
9718515		+10050	I162	28	252	.4	7660
9718516		+10075	I162	31	408	.4	E1093 3
718517		+10100	I162	30	363	.5	7492
718518		+10125	I162	24	186	<.4	5523
9718519		+10150	I162	36	360	1.4	8555
718520		+10175	I162	29	521	1.4	8208
718521		+10200	I162	20	903	.8	6976
718522		+10225	I162	24	910	. 6	7352
718523		+10250	I162	35	373	<.4	6134
718524		+10275	I162	53	325	<.4	5577
718525		+10300	I162	46	340	.5	5967
718526		+10325	I162	50	459	<.4	9699
718527		+10350	I162	64	417	.5	5628
718528		+9800	I161	33	157	<.4	3194
718529		+9825	I161	30	161	<.4	2723
718530		+9850	I161	18	53	.5	2562
718531		+9875	I161	56	118	3.5	2693
718532		+9900	I161	19	114	1.3	2439
718533		+9925	I161	36	128	1	8911
718534		+9950	I161	54	66	1.8	4053
718535		+9975	I161	7	44	<.4	2540
718536		+10000	I161	34	198	<.4	9525
718537		+10025	I161	31	225	.9	9055
718538		+10050	I161	34	594	1.2	8289
		+10075				.5	
718539			I161	27	387		E11092
718540		+10100	I161	33	556	1.4	B10529
718541		+10125	I161	29	591	1.2	8518

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LAB NO.	FIELD NUMBER	国際市ちナ	North+	Pb	22	Ъg	Ba
		West-	South-	D Dur	Dbw	bhu	ppe
9718543		+10200	I161	38	553	.7	7283
9718544		+10225	I161	39	836	1	8664
9718545		+10250	1161	51	1460	.9	7252
9718546		+10275	1161	72	1090	<.4	4460
9718547		+10300	I161	115	843	.6	5178
9718548		+10325	I 161	290	1110	2.6	5508
9718549		+10350	I161	57	666	.5	5592
9718550		+10375	I161	68	1860	1.4	7795
9718551		+10400	1161	46	803	<.4	5388
9718552		+9800	I160	96	277	2	2414
9718553		+9825	I16 0	27	141	<. 1	2749
9718554		+9850	I16 0	73	347	2.1	1849
9718555		+9875	I160	43	313	<.4	6161
9718556		+9900	I160	48	159	.6	7645
9718557		+9925	I160	8	16	1.2	4796
9718558		+9950	I160	48	105	1	3606
9718559		+9975	I160	··. 20	81.	<.4	2505
9718560		+10000	I160	28	339	.7	7421
9718561		+10025	I16 0	<4	17	<.4	1840
9718562		+10050	I160	11	10	.7	2427
9718563		+10075	I160	28	77	6.2	1889
9718564		+10100	I16 0	29	93	1.1	4892
9718565		+10125	I160	36	246	. 9	7263
9718566		+10150	I160	44	248	.4	8579
9718567		+10175	I160	25	176	<.4	3579
9718568		+10200	I16 0	28	197	<.4	4225
9718569		+10225	I160	20	272	. 6	5931
9718570		+10250	I160	63	1950	.8	4569
9718571		+10275	I160	56	3050	.7	3879
9718572		+10300	I160	867	5 <u>11</u> 0	2.3	4187
9718573		+10350	I160	980	2710	2.1	5749
9718574		+10375	1160	198	E18900	1.9	3756
9718575		+10400	I160	84	B12300	1.4	4790

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I-insufficient sample X-small sample E-exceeds calibration C-being checked R-revised If requested analyses are not shown , results are to follow

ANALYTICAL METHODS

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Pb Reverse Aqua Regia / AAS

2n Reverse Aqua Regia / AAS

Ag Reverse Aqua Regia / AAS

Ba X-Ray fluorescence / loose powder

APPENDIX IV:

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ANALYTICAL PROCEEDURES



COMINCO EXPLORATION RESEARCH LABORATORY ANALYTICAL METHODS PERFORMED ON TECK SAMPLES

Reverse Aqua Regia / AAS (Cu, Pb, Zn analysis)

0.5 grams per sample is weighed into clean dry test tubes. 1 mL of concentrated Nitric acid and 3 mL concentrated Hydrochloric acid are added. Test tubes are placed on a sand bath at 90° - 95° for 3 hours and shaken at intervals of 20 minutes. Samples are cooled to room temperature then diluted to 20 mLs with de-ionized distilled water. Solids are given time to settle. The samples are then analyzed on a Atomic Absorption Spectrophotometer. Quality control standards are inserted every 15 samples and repeats every 10 samples.

X-RAY FLUORESCENCE / LOOSE POWDER (Ba - pressed pellet)

5 grams of 100 - 200 mesh sample are milled with 5 grams Boric acid for 3 minutes. The milled samples are then pressed at a pressure of 20 tonnes per square inch for 50 seconds to produce 40 mm pressed pellets. Different excitation X-ray tubes are employed to analyze different trace elements to try to get the maximum intensities and high resolution with overlapped element peaks. All trace element analysis calibration curves are set up by using commericial standards. Compton scattering calculation is used to compensate absorption and anhancement effects. Every 25 samples prepared includes 1 repeated sample and every 10 samples analysed includes running 1 commerical standard.

APPENDIX V:

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SOIL SAMPLE DESCRIPTIONS

SOIL SAMPLE FORMS - COLUMN DESCRIPTION

Top of sample interval (cm) DEPTH:

THICKNESS: Thickness of samples interval (cm)

HORIZON:

- Leaf, humus layer, undecomposed vegetation lying on the ground surface (do not LH. sample) AH.
 - Dark grey to black, organic rich mineral horizon usually no deeper than 15cm from the surface (do not sample)
 - Grey to white (occasionally brown) leached mineral horizon near ground surface, AE. usually sandy; accompanied by BF or BT horizon at depth (do not sample)
 - Black, organic-rich mineral horizon at depths greater than 15cm (do not sample) BH.
 - BF. Red-brown, iron-rich horizon
 - BT. Brown, clay-rich horizon
 - Horizon which is water-saturated most of the year, identified by red-brown mottles BG.
 - Brown horizon which is only slightly different in appearance from underlying parent BM. material
 - C1, C2, C3, etc. Parent material for soil
 - White calcium carbonate precipitate in C horizon CA.
 - 01, 02, 03, etc. Bog sample at various depths.
 - Talus fines TF.

LB - Light Brown COLOUR:

- BL Black YO - Yellow MB - Medium Brown
 - GR Grey DB - Dark Brown
 - RD Red RB - Red Brown
 - YB Yellow Brown
 - WH White
 - MO Mottled Red Brown (Red Brown Patches)
- PARTICLE SIZE: Sand/Silt/Clay
- Estimated % Fragments % FRAGMENTS:
- FRAGMENT ROUNDNESS: WR - Well Rounded SR - Sub Rounded SA - Sub Angular
 - VA Very Angular

FRAGMENT COMPOSITION: M

- Mafic Volcanic Felsic Volcanic
- F Intrusive
- 1 Α
- Argillite S Sediment
- Sericite Schist SS
- Limestone L
- Mineralized MM

Estimated local slope in degrees SLOPE:

- Indicate with a "S" if sample is a seepage zone SEEPAGE:
- Till, outwash, residual; details on any of the above COMMENTS:

E160N 103150E 70 10 TF 11 11 50 11 11 20E Perch. E160N 103+25E 100 10 TF/BT Gy/BR SSC 11 11 10E 3cm Fe Oxide Herita Incl. E160N 103+25E 100 10 TF/BT Gy/BR SSC 11 11 11 10E 3cm Fe Oxide Herita Incl. Class E160N 103+25E 100 10 TF/BT Gy/BR SSC 11 11 11 10E 3cm Fe Oxide Herita Incl. Class E160N 103+25E 100 10 BF YB S/S 25 11 11 11 10E Below Below Americanaction E160N 102+75E 100 10 BF? YB SANDY 30 A 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 <th>1989 9</th> <th>7 SOIL</th> <th>SAMPL</th> <th>ES</th> <th></th> <th>PROPER</th> <th>TY PROJEC</th> <th>т <u>Іа</u></th> <th>NCKG</th> <th>RID-E</th> <th>LF</th> <th>SAIP</th> <th>ler _<i>RF</i></th>	1989 9	7 SOIL	SAMPL	ES		PROPER	TY PROJEC	т <u>Іа</u>	NCKG	RID-E	LF	SAIP	ler _ <i>RF</i>
I (LOW) 103755E 70 10 77 10 75 40 54 54 11 FE Segment Ferrences in Sur I (LOW) 103755E 70 10 TF 11 11 50 11 11 206 Pera Ctual Ctu					HORIZON	COLOUR					SLOPE	SEEPAGE	COMMENTS
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	I 160N	104100E	40	10	Bm?	mB	5/5	30	SR	M	10E		
Ellon 103150E 70 10 TF 11 50 11 11 22E Prove E160N 103725E 100 10 TF/BT Cybe SSC 11 11 11 10E 3200 Start Restance Control Contr Contr Contr </td <td>I IGON</td> <td>/03+75E</td> <td>70</td> <td>10</td> <td>TF</td> <td>8<i>6</i>4</td> <td>5/5</td> <td>40</td> <td>SA</td> <td>5#</td> <td>н</td> <td></td> <td>Fe Sayna Fernance IN SA MA</td>	I IGON	/03+75E	70	10	TF	8 <i>6</i> 4	5/5	40	SA	5#	н		Fe Sayna Fernance IN SA MA
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	E160N	103150E	70	10	TF	11	ч	50	11	u	20E		Pook.
FIGON 103+00 206 Note Standing of Horiz EIGON 102+755 100 10 BF YB 5/5 25 11 11 DE Below Bits Tolus / Hummo. EIGON 1004+50E 100 10 BF? YB SAMPY 20 A 11 11 But and only fulled EIGON 102+75E 30 10 BF YB S/S 20 A 11 11 11 But and only fulled EIGON 102+75E 30 10 BF YB S/S 20 SA 1 SE 20mm locked allowed EIGON 102+75E 30 10 BF YB S/S 20 SA 1 SE 20mm locked allowed 11	E160 N	103+25E)00	10	TF/BT	Gy/BR	SSC	н	11	4	10E		
II(60N) $IO2+75E$ IOO IO ISF VB S/S 25 II II II III $IIII$ $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	F160N	103+00									ZOE		MO SAMPLE OMY ROCK BLOW HUMUS
Ellow 102+50E 100 10 BF? YB SAMPY 20 A 11 11 Balance Lowed and applied Ellow 102+25E 30 10 BF YB S/S 20 SA 1 11	FIGON	102+75E	100	10	BF	YB	5/5	25	11	11	bE		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	II60N	102+50E	100	10	BF?	YB	SANDY	30	A	H	ч		Below Leaded - Looks Low
LIGON 102400E 25 10 BF RB 11	E160N	102+25E	30	10	8F	YB	5/5		SA	л	Æ		0.00
160N 98100E 26 8 BF 0B 11 15 11 5W Good sample. 1 160N 98+25E 35 10 BF 11	IGO N	102+00E	+	10.	BF	RB		26	16	16	*		
II60N $98+25E$ 35 10 BF 11 11 11 11 11 11 11 $II60N$ $98+56E$ 11	[160N	98+00E	26	8	BF	oв	н	15	n	Л	ςw		Good sample .
10010 101302 11	[160N		35	10	BF	н		14	ir.	11	10		
160N 98+75E 40 11	[160N	98+50E	1,	11	11	ب ا	11	H	11	11	11		H I
CIGON 11100 D N	_		40	11		11	11	11	11	11	5E		4
[160N] 99+25E 40 5 C Gybr. 11 80 A 5H 15E Goodbocked traights Sall [160N] 99+50E 60 10 3?(7 LB 11 50 A 5H 20E Poon. [160N] 99+75E 40 10 BF 0B 11 30 A 5H 5E TALLISY Sciumpnee? [160N] 100+00E 40 10 BF 0B 11 30 A 5H 5E TALLISY Sciumpnee? [160N] 100+00E 40 10 BF 0B 11 30 A 5H 5E TALLISY Sciumpnee? [160N] 100+00E 40 10 BF MB Sanoy 20 SA 11 11 [160N] 100+00E 50 8 C? GY SC 50 A 11 10E -moss/Annus/Acce.Ab [160N] 100+30E 50 8 C? GY SC 50 A 11 10E<	FIGON	99+00E	50	10	BF	Rв	11	u	11	4	1(SANDIER- GODEEACHED ABOVE
FIGON 99+50E GO IO 8?02 LB. II GO A SH 20E Poon. E160N 99+75E 40 10 BF 0B 11 30 A SH 5E TALM SY Summaries? E160N 100+00E 40 10 BF 0B 11 30 A SH 5E TALM SY Summaries? E160N 100+00E 40 10 BM? mB 11 11 11 Kar Still mixing of Horiz. E160N 100+00E 50 10 BM? MB SANDY 20 SA 11 11 E160N 100+00E 50 10 BM? MB SANDY 20 SA 11 11 E160N 100+00E 40 10 BF/AM YB 5/S 40 A 11 Funt Func	[160N	99+25C	40	5	C	Gy-Bik	14	80	A ·	SH	15E		
LIGON 99+75E 40 10 BF 0 B 11 30 A SH 5E TALL SY Many MINED FIGON 100+00E 40 10 Bm? mB 11 4 11 Kar Still mixing of Horiz. FIGON 100+00E 40 10 Bm? mB 11 4 11 Kar Still mixing of Horiz. FIGON 100+00E 50 10 BM? MB Saway 20 SA 11 11 FIGON 100+00E 50 10 BF/BM YB SAS 40 A 11 Frat FIGON 100+00E 40 10 BF/BM YB SAS 40 A 11 Frat FIGON 100+30E 50 8 C? GY SC 50 A 11 10E -mass/Aumus/mee.add Additional Ad	FIGON	99+50E	60	10	3?(7	LB.	W.	÷	A		æE		
[160N] 100+00E 40 10 BM? mB 11 11 11 Ear Still mixing of Horiz. (160+50N) 100+00E 50 10 BM? MB Samoy 20 SA 11 11 (160+50N) 100+00E 50 10 BM? MB Samoy 20 SA 11 11 (160N) 100+25E 40 10 BF/BM YB 5/S 40 A 11 FLAT (160N) 100+20E 50 8 C? GY S C 50 A 11 10E - Moss/Annus/mos/Acce-Nos (160N) 100+20E 50 8 C? GY S C 50 A 11 10E - Moss/Annus/Acce-Nos (160N) 100+25E 40 10 BF? RB SANOY 20 SR 11 Still annus/Acce-Nos (160N) 10(+20E 45 10 BF YB S/S 20 SR 11 Still annus/Acce-Nos (160N) 10(+25E 50	II60N	99+75E	40	10	BF	oB	1	30	A	5#	5E		- Hervis MINEI)
160450N 100400E 50 10 BIN? MB SANDY 20 SA 11 11 160N 100425E 40 10 BF/BM YB 2/5 40 A 11 FLAT 160N 100425E 40 10 BF/BM YB 2/5 40 A 11 FLAT 160N 100450E 50 8 C? GY SC 50 A 11 10E - Moss/Aumus/Accu. No! 160N 100450E 50 8 C? GY SC 50 A 11 10E - Moss/Aumus/Acue. No! 160N 100450E 40 10 BF? RB SANOY 20 SR 11 SE LEACHED ABOUE V. SANOY 160N 101+00E 45 10 BF YB S/S 20 11 V II SHU Bornaulat Sendur 160N 101+25E 50 10 BF RB S/S 15 11 11 11 11 11 <	[160N		40	10	BM?	mB	u		u	ı/	KAT		
160N 100425E 40 NO BF/BM YB 2/5 40 A 11 FLAT 160N 100+50E 50 8 C? GY 5 50 A 11 10E Poss Lemaned - Moss/Mumus/Mock-No! 160N 100+50E 50 8 C? GY 5 50 A 11 10E - Moss/Mumus/Mock-No! 160N 100+75E 40 10 BF? RB SANOY 20 SR 11 SE Lemaned No 160N 100+75E 40 10 BF YB S/S 20 SR 11 SE Lemaned Security 160N 101+00E 45 10 BF YB S/S 20 11 V 11 Still somewhat Sender 160N 101+25E 50 10 BF RB S/S 15 11 11 11 11 11 160N 101+25E 40 8 BF 08 11 11 11 11	160450N	100400E	50	10 -		MB	SANDY	20	SA	11	μ		
ILON 100+50E 50 8 C? GY SC 50 A 11 10E Poss Lemento - Moss/Aumus/Auce-Nos 160N 100+75E 40 10 BF? RB SANOY 20 SR 11 SE Lemento ABO UE 160N 100+75E 40 10 BF? RB SANOY 20 SR 11 SE Lemento ABO UE 160N 101+00E 45 10 BF YB S/S 20 11 V 11 Still announded Sendur 160N 101+25E 50 10 BF RB S/S 15 11				10	_ 1				A	11	For		
160N 100+75E 40 10 BF? RB SANOY 20 SR 11 SE Lercheo About [160N 101+00E 45 10 BF YB 5/5 20 11 Y 11 Still annual at Sandy [160N 101+25E 50 10 BF RB S/S 15 11 11 Still annual at Sandy [160N 101+25E 50 10 BF RB S/S 15 11 11 10E 11 11 11 [160N 101+25E 40 8 BF 0B 11 11 4 11 5E Good.			50				1		A	મ	IOE		- MOSS LEACHED
[160N 101+00E 45 10 BF YB 5/s 20 11 Y II Still somewhat Sandy [160N 101+25E 50 10 BF RB S/s 15 11 11 10E 11 11 11 [160N 101+25E 50 10 BF RB S/s 15 11 11 10E 11 11 11 [160N 101+50E 40 8 BF 0B 11 11 4 11 SE Good.		100+755	40	10					SR	Ц	SE		LEACHED ABOUE
- 160N 101+25E 50 10 BF RB 5/5 15 11 11 10E 11 11 11 - 160N 101+50E 40 8 BF 0B 11 11 4 11 5E GOOD.				10	BF			20	н	٧	4		
160N 101+50E 40 8 BF 0B 11 11 4 11 5E 600D.		101+252	50	16	BF			15	11	10	IOE		7
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GRIPLOCO 9800-E	· IL	RT	GR	SA HOC	
9825-E	, 5	BF	RB	519 54	0.
9850-E	,4.	BF	RB	SA SH	10%
9875-E	.5	BT	GR	SA 20	ISIL
9900-E	. 3	BF	RB	SAU	SIL
9925-E	.4	BE	RB	57 20	512
9950-E	.5	BERA		10	
1975 E	15m	Bt	GR	SA 2	SIL CL4
0000 E	BAS	BABE	GRRB	9A 35	GCL
100+25 E	1.5	BIR	RB !	SA 20	
100+50 E	1.4	BF	RB	94 ZO	CL
100+756	64	BT	GR	5# 40	6
101+00 F	1.5	BF	RB	VA 917	Prop
1017256	14	BM-T	GR	V190%	GOUG
IOH50E	:4	BF	RB	54-20	2512
101+75 1=	4	BE	RB.		10 SIL
IOZTOO E	4	T-BT	GR	VA 30	ACL
107+25 E	Cer 4	BP	LB	5# 20	To SIL
107150 E	. 4	BF	RB	SA-ZO	SIL
107+76 E	. 4	BP	RB	SA 15	A
103+00 E	, 4.	BF	L'RB	SAIS	-12
103+25 F	4	BP	RB	54 15	14912
103+50E	5	BP	RB	5A 15	10 512
103+75E	'Ym	BF	LRB		6516
TO ANO E	u.A	Br	LRB	SA 20	6 EL

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ferre l'	and the	ees sta	Tation	6 4			A Provent				13 M/	S a sta	44	
2010	PEPTH	man	COLOVE	PRACE	Comments_	GRID	DEPT4	HOERINA	Toit	-qn	FRAG	com	MON	
102+00e	VIJER.	BI	GR	(VA)SA	512 155	9400-E	14	BE	RB	151		64		- ·
10 2 125 0	5	BTBF	JE.	VASA	SAN 2010	9825-8		BF	RO	51	0	<u> </u>		-
02+507	6	Bt	G.R.	VA SI	1. 20%	9850-1	A 1	BE	RB	51		514	1998) 1899 313	1200
12+75-E	. 9	BE	en E-B	SA SH		9 875-		BF	RB	54		c4		-
13+00E	15/14	T	4B	VASIL	409	9900-		BP	RB	51	1 9	SIL	1.49.4	- 14
13.756	105	BT	GRI	SASH	The second second structure and second s	9 925		BF	RB-	5	2100	SK-	POR	5
MAR.	#855-	BTI	GPL .	SA SKZ	06	9 2001	E.B	BM	B4	. V.I	4 306°	CH G	OUG-5	-1/
and see	1.9	BILL	GR	5A 514	5la	9 975	5.4	BA	RB	51	7 10/0	4		
A Stand	4	BT	GR	SAG	The second	100 toc	15	BF	AB .	5	150	SIG		
50 E	8	BT	GR	SA CL	PGRIN 2	100+25	E15	BF	KB	31	7 1/4	CA		-1
S. F. K.	18. 1	BT	BMB	SASR	206	100+50	1.		RB.	SA	106	1811	(新生)	-
216 Same	8	BF	RB-	SH SK	156/512	100+75	E 14	BF	RB	91	4 100	512		
70+75 E	.8	BF	LB	SA	10% 314	101700		BT	GR	_5/	\$ 20%	SAN	- 1- v	-
OUISDE	.8	BT	GR	SA SIL	510	10/125		BT	MB	- 2	3 806	CL.		
00175F	·3 N	BF	RB	54 5/6	5%	101+30-		BI	mB	SA	15%	C4	1000 B	
001000	13	BF	RB .	>A.CL	1010	10/+75-	E , 5	13T	MB	54	2 10 0	SAN		
1975-F	.3	BFPOOR	RB	VA. TO	BIEPROCH	102+00-	EIH	BT	MG	51	1 000	SILS	AN	
950-E	.3	T	BL WH	VA 85		102+25-1	5.4	BT	MB	SA	206	SAN		
1925 F	14	BF	RB	VA 30%	SIL	102+501	= 1.3	BP	RB	51	12/18	SIL	1-	
900-E	.3	BEPOOR	RB	VA 90%	ci i	102475	E . 4	BF	RØ	51	3 10%	50/ 31/ 51/		
1875 E	.3	RF	RB	VA 30%	SIL	103+00	E1.5	BF	R-B	151	1 12 10		,	
1850E	,3.	BF POOL	RB	VA 901,0	4	108125	E 14	BF	RB	51	R 1810 1 999	SIL SAN PER	RAVE	
1825 E	.4	BF	RB	VA606	\$12	108+50	E1.3	T-BM	WH BEMB	- 91 V	A 99%	Per		
7.800 E	3	ØF	RB	PA 200	SIL	10 3+75	E	M	5					
450N	:#	BF	RB	5A 5%	sri-	104+10		1 Ne	5)~		
	and the second se				1		en frans		1.2.2.					

I-164N 19 GRIF 200 NTC ISAPPOR LOLDVR FRAG DETTO COMMENTE 94 ES SIL SAN 9800E 5 BT GR 54 251 916 CLY 9825E 4BY GR 54 359 CLY 5 BT GR 9850-E 4 BF RB 9825E SA 201 SA 301/2 514 7900-E 4 ßĔ RÐ 0% NEXTTO GR Ź 9925-E I.M E SIL BF RB VA 36 SIL 9950-F1.6 9975-E 5 BF RB 5A 25 SIL 10 MODE (163+50) 5 BM GR 14 250 56 162+50 5 BF RB 5A 20 514 Search and the second secon

1999 97	SOIL	SAMPLI	ES		PROPER	TY PROJECT	r£	LF			SNIP	er <u>CAmas</u>
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	x	FRAGMEI ROUND	(TS COMP	SLOPE	SEEPAGE	COMMENTS
164N	101+50E	100		BT	LB							WET / CLAYEY
	101+75E	50		BT	LB		15	SA				·
	102+00E	50		BF/BT	L.RB		20	VA				·
	102+25E	60		BT			5	SA				
	102+50E	70		BT/C	LBKy		40	VA				
	102+75E	60		С	Gy		60	VA				
*	103+00E	50		BF	RB		40	SR				
	103+25E	30		BF	RB		20	SA				4 A
	103+50E	25		BF	RB		10	SA				
	103+75E			BF./87	LB		10	SA				
	10400E			BF/BT				SA				
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1989 97	SOIL	SAMPLI	ES		PROPER	ry project	r _ <i>E</i>	LF			SAMP	LER <u>CAMAS</u>
SAMPLE NO.	GRID LOCATION		THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE		FRAGNEI ROUND		SLOPE	SEEPAGE	COMMENTS
I 165N	98+00 E	15		BF	LB		10	SA				
1	98+25E	25		BT/BF	LB		5	SA				
	98+50E	30		BF?	LB		5	SA				
	98+75E	40		BT	LB/Gy		10	SA				
,	99+0CE	20		BF	LB		20	SR				· · · ·
	99+25E	75		BT?	Gy		40	VΑ			• 7	CREEK
-	99+50E	60		C	64		70	VA				-
	99+75E	110		С	Gy		70	VA				10 C
	100+00E											NO SAMPLE BOILDERS
1	100+25E	25		BF	RB		5	SA				
-	100+50E	50		BT	LB		40	SA				
	100t75E	25		Br	LB		65	VA				
ļ	101+00E	30		Bt/BF	LB		25	SA				
	101+25E	100		?	?		?					CLAY
	101+50E	25		BF	RB		90	SA				
	101+75E	100		BT	LBKy		35	SA				
i	102+00E	100		C	Gy		70	VA				
	102+25E	50		BF	RB		ಎಂ	SA				
	103+50E	50		BF	RB		10	VA				
;	102+75E	50		BT	LB/cy		50	VA				
	103+00E	50		BF	LB/RB	1.1	40	SA			-	
	103+25E	20		BF .	13		25					
	103+50E			BF	Beled		10	SA	•			
	103+75E	T I		BF	RB		10	SA				
V	104+00E			BF	LB			SA				
164+50N	100+00E	70		BT	LB			VA				· · ·
I164N	100+00E			BF	LB			SA				- · · · · · · · · · · · · · · · · · · ·
1	/00+25E			BF	LB		_	SA				
	100+50E			BF	BR		15					· · · · · · · · · · · · · · · · · · ·
	100+75E			BT	LB			VA				
	101+00E		t t									VERY WET -CLAY
V	101+25E				-		-	-				11 11 11

1989	SOIL	SAMPLI	ES		PROPER	TY PROJECT	TEL	F/I	an Cr	Grie	SMP	LER SNS
SAMPLE NO.	GRID LOCATION	<u>`</u>	THICK (cm)	HORIZON		PARTICLE		FRAGME	NTS	ľ		COMMENTS
5166N	98+00E	3	15	BF	RB	514	x	SA	5	35		
1	35	5	.15	BF	RB	51+	35	. (1	10		
	50	Ju		8F	RB		\propto	1		15		
	75	3	.15	BT	MB	Salsit				15		
	99+00E	4	.15	BT	MB	514	30		Ì	20		
	25	.6	.15	BT	MB		35			30	••	
	50		25		RB	517	35			20		······································
	75	3		BFYTF			65		$ \uparrow$	40		
V	100 took	.6		BT	LB	51+	35	$\overline{\mathbf{V}}$	V	10		
~			\sim									
(IKKN)	101+25E	4	<u>, 2</u>	ßF	RB	514	30	SA	5	20		
1	50	2	.1	BES	RR	Sa		SA	1	55		No leach zone
	75	3		BF?	RB	59		SA		45		No Leach ZONP
	102+00E	2		BT	LB	Sa	65		V	50		
	25		20	Sa	mρ	Ł						
	50	.5	.15	BT	LB	514	40	SA	5	55		
	75	2		BM	Gr	<u>5</u> a	70	· .	5	50		
$\overline{\mathbf{v}}$	103+00E				m D	le						
~ ~						<u> </u>						· · · · · · · · · · · · · · · · · · ·
- // フ ヘ\	100+25E	J	. <u>к</u>	RE	PR	SH	2	SA	5	5		· · · · · · · · · · · · · · · · · · ·
- /6 / 10	50	<u>,</u> 4				<u>רוכ</u>	20		1	5		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
	75 75	<u>.</u> म	, v ,	55			20			10		
		_	, .				20			<u>بر</u>		
	101+00E						20			15		<u>.</u>
	<u>×</u> 50	<u>`</u> 3					30	$\left \right $	-	5		
		<i>्</i> 4 .3	.15 K							-		
	75		<u>,15</u>				20			10		· · · · · · · · · · · · · · · · · · ·
	102+00E				\mathbf{V}		20 ~	$\left \right\rangle$		<u>ম</u> ম		
	× 50	<u>`</u> 3	<u>, '</u>			\checkmark	25					
	70			BT	MB		30			30 35		
			<u>, 2</u>	BT	DB	5a	40	<u> </u>				
	103+00	.5 .4		TF BT	<u>GR</u> LB	Sa		VA <a< td=""><td>1</td><td>50</td><td></td><td></td></a<>	1	50		
	50	A CONTRACTOR OF A	Statement of the local division of the local	Bamp		Sa_	70	5A		50		
		.4	2	BT/TF	nB/GR	50	75	VA	5	50		
	104+00E							VA		35		

Sh Maran		B AA	distanti	Wanna		en de la della della della constana dalla 1 1	1 *	har the	I-16	BN		21
130 Loc	DEPTH	LIGERSOM	course	FRAG	comments	GRIPLOCA	DEPTA			ALC: NOT	con	nments
		I-ICLN				98750		BF	RB	SA 15%	SIL	
INT + 2.5 d	3.m		RB	VA 20	lar	99.001	V I	BF	mB	SA 56	SIL.	100
108750 E	.4 m		RB	V4200		99.25	9.1	BF	RB	54 208	SIL	10 10 10 10
100475 K	14 m		RB	VA 301		9 9.50	1 1 1	BF	RB	5A 20%	51L	-
M.ON	, EM		RB	VA 119	CL	99.756	A	BF	RB	5A 256	SIL	
		No.				IUC TOOE	1 6		RB	54 10%	SIL	
SOTTO-N	4 m.	RE	RB	517 106	516		1					
	Hand in		1- 1-									
TANK PRE	13 m	BE	RB	SA IDIO	SIL							
		the second secon								i		1946
		E-167 N	• • •	·								
ODINUP		BF		517 15%	SIL							
149475 1		BF	RB.	51 15%	SIL, C.							
199150E			RB	5A 109	SIL						-	
99425E	-		RB	SA ilo	cip .				•	. 8		
99+00 E	.4 m		RB	SA No	CL						·	
98175 E	·4m	RF	MB	517 16		1						
98+50 E	· 5 m			5A 10%								
98+25 E	-		NR B	SA 16	CL							
98100E	1 / /	BF	RB	SA 10%	SIL	1						
		I-164-1								1 7		-
9800 E			RB	5A 10%	511							
9825 V	1.8 m	BF	MB	54 16	CL	I-168+50	Niz	SF	RB	SA ble	SIL	
9850 K	·4m	BF	MB	SA 18	CL							
		2. 19 1.				, L,					· · · · · · ·	ليست
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1989 92	SOIL	SAMPLI	ES		PROPERT	Y PROJECT	EU	-IAN	CKGR	0	SAMP	LER <u>R</u> F
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE		FRAGHEI ROUND		SLOPE	SEEPAGE	CONNENTS
- 168 M	104+00E	40	10	BM	MB	5/5	25	SA	sĦ	ISSE		
168N -	103+7 5E	40	10	Em?	MB	SANDY	ht	ч	н	25E		No Lehched u Shandy
168N-	103+50E	55	10	Bwś	ιt	s/s	1t	11	N	11		Edow cande of above samp
168N-	103125E	65	10	2	LB	SANDY	15	11	()	25se		Couldn't get through sandy
168N -	103+00E	59	10	En?	MB	55	25	sri Sr	11	11		
	102+75E											CUFF - No SAMPLE
168 1.1-	102+50E	50	8	BF	RB	55	20	11	30	IDSE		BELOW THKIL, BOOK LEACHED
.168 N -	102+255	25	Ц	8F	OB	5/5	15	11	A	5ē		Bolow Zem leached
168N-		25	(0)	BF	OB	u	it	-11	st.	11		11
168N-	101+75E	11	- lt	BF	71)/	71	11	11	1		3cm LEACHED
168N-	101+50E	25	5	BF	"	1	11	//	11	41		4cm LERMED
	101+25E	11	8	BF	RB	5/5	11	it.	R	14		a little sandier
-168N-	101+00 E	35	5	2F	ÔВ	tı	ել	M	h	IDE		
16311-	1004758	н	н	R	11	11	11	н	11	Ц		
- 168N -	100+50E	30	11	¢(ų	ų	ıt.	75.	ч	Se		
1681-	100+85E	25	5	BF?	RE	s/c	h	SR	MNL.	FAT		RROWL CLAY RICH 21500 RBCLAY MEH (MOTLED) INTE
	·											
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	<u>.</u>			•								······································
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1989	SOIL	SAMPLI	ES		PROPER	ty projec	т <u>_</u> Е	<u>15(1</u>		<u>r</u> Grì	d) smp	LER SWS
SAMPLE NO.	GRID LOCATION	DEPTH (cm)		HORIZON	COLOUR	PARTICLE SIZE	x	FRAGME	NTS CON	SLOPE	SEEPAGE	COMMENTS
L169N	578+∞E	, r, ,	.2	RF	RB	С	30	SA	S	4		Baggy
	<u>~</u>	,9	3	BG	Mo	C	20			6		
	50	.5	5	BG	mo	С.	25			0		
	75	.6	.3	BG	ΜO	C	3			0		
	99+00E	.9	.3	RG	Mo	<	15			0		
	-25	.6	3	BG	mo	<	15			0		V
	50	ц <u>ч</u>	,2	BT	MB	SIt	30	V		5		Dry
	75	.4	.2	BT	mB	Sa	50	٧A		5		
L	100+ncE	3	.15	BF	PR	5(+	30	SA		5		
1	25	`3	15	BF	RR	site	20	1		0		
	50	्प	.2	BF	RE	514	35			0		
	x	.3	.15	BT	1B	Sa	45			5		
	INITODE	. 3	.2	BE	RP.	517	R			20		
	25	.4	.2	37	RB	514	८०			2		
	50	.3	I.	BF	RP.	$\leq 1+$	20			15		
	75	.3	, 15	BF	RB	SIt	25			10		
1	102+00E	.4	\mathbf{x}_{i}	87	MB	517	<u>3</u> 0			20		
	25	.7	, 2	BT	CP,	Sa	30			10		· ·
	50	.6	.15	BE	RB		35			15		
	75	.6	.2	BT	LR	54	40			15		·
	103+00E	.5	<u>ر ،</u>	BT	LB	<u>SI+</u>	ょ			20		
	25	,5	.2	BT	infs.	Sa	40			45		No Leach Zonr
	50	.7	्र	BT	MB	54	35			40		/
	75	. ح	,⊇_	BT	MB		35			35		
V	1044006	.6	.2	BT	MB	Sa	30	Ý	\rightarrow	X		\checkmark
												· · ·
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			T									

J140+50N 96+0	DE 50	BF	RB	SILT	15 SA		
5140N 96+	00E 40	BF	RB		40 VA		

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SIHIN	96+00E	50	BF	BR		20		 	 	 	
·	96+25E		BF	BR		20	SA	 	 	 	
	96+50E	70	BF	BR		15	SA.		 	 	
	96+75E	60	BF	Br	Silt	15	SA		 	 	
	97+00E	50	BF	BR	CLY	15	VA/512		 	 	
	97-25E	40	B⊧	R	SILT	20	VA	 		 	·····
	97+50E	50	BF	BR	SILT	20	SA		 	 	
	97+75E	50	Вт	BR	CLY	15	SA		 	 	

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J141+501	1 96+00E	50		BF	Br	SILT	25	SA		

199197	SOIL	. SAMPLI	ES		PROPER	TY PROJECT	1	ELF	 	SAMP	$\mathbf{ER} = \mathbf{B} \cdot \boldsymbol{\omega}$
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	x	ROUND	SLOPE	SEEPAGE	COMMENTS
5142N	96+00E	30		EF/BT	LB		5	SA			Poor
	76125E	50		ŖF	RB		10				
	96+50E	40		BF	RB		10				
	76+75E	80		BT/BF	BR	SANDY	5	SA			
	97+00E	W		BT	G1		15	SA			
	97+25E	100		Gr	LGY	510/014	0				
	97+50E										NO SAMPLE
	97+75E	100			ZL/Gy	SILT	0				
· · · .	78+00E	110		REANIC	BL	SICT					POOR - CAN'T GET SAINALE
	76+25E	60		TF	Gy	SANOY	10				
	78'50E	30		TF	Gy	SAND					ROCK BUIFF - POAR
	78+75E	50		TF?	Gy						Pack
	99+0.E	50		777	Gy	Saud					WET
	79+25E				· ·						NO SAMPLE
	TO+50E	70		TF?	G4	SANDY		VA			WET
	29+75E	40		RT	64	SAMOY		VA			WET
	10C+00E	40		BF	LB	SILT	10	SA			
	10C+75E	30		BF	lB	SILT	10	SA			
	100+50E	30		BF	BR	SILT	15	SA			
	100475E	30		BF	BR	SILT	15	SA			•
	101+00E	40		BF	Br	CLY	40	AV			
	101+25E	50		BF	<u>Be</u>	CLY	70	VA			
	101+50E	50		BF	Br	SILT	10	19/5A			
	101+75E	60		BF	BR	SILT	15	SA			
	102-00E	50		BF	BR	SILT	30	SH/SR			
142+50N	96+00E	40		BF	RE	SANDY					
143N	102+60E	40		BF	RB		80	VA			
	101+75E	50		3F	Br	CLY	60	VA			· · ·
	101+50E	80		BF	BR	CLY	95	VA			
	101+25E	40		BF	BR	CLY	95	VA			
	lo1+coE	50		BF	BR		10	SA			
	100+75E	50		BF	BR	SILT	20	VA			

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199197	SO 11	. SAMPLI	E\$		PROPER	ty projec	л <u> </u>	ELF			SAP	LER B.W
SAMPLE NO.	GRID LOCATION		THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE		FRAGME		SLOPE	SEEPAGE	COMMENTS
5143N	100-150E	40		TF	GY		95	VA				
	100+25E	60		TF 8T	Gy	CLY	2	SA				· · ·
	100400E	30		BF	BR	SILT	5	SA	-			
	99+75E	40		Br	GY	SANDY	30	SA/SR				WET
	99+50E	90		Вт	GY	Cuy	10	SA				WET
	79-25E	20		BF	RB	SAMOY	10	5m/se				
.	99+00E	70		?	Gu	SANOY		SA			-	CK WASH?
	76+75E	90		<u>B</u> F	ŔВ	SILT	10	SA				
	98+50E	90		BT	BR		15	SA				
	PEIGGE	100		3F	RB	CLY/SILT	10	SA		~		
	76+∝€	70		BF	BR	SIT/CLY	15	VA				
	97+75E	60		TF	Gr		75	VA				
	17+50E	20		TF	G¥/8L		75	VA				SOME SOIL
	97+25E	70		BF	BR	SILT	50	VA				
	77+00E	60		BF?	BR	SILT	20	VA				
	96+ 75E	60		BF	L3r	SILT	15	5A				
	76+50E	40		BF	LB	SILT	20	VA				
	96+25E	60		B₹	LB	CLY	20	SA				
	96+00E	40		BF	LВ	5167	20	SA				
5143+5211	96+00 E	40		BF	LB	SILT	20	SA/UA				· · ·
5144N	96+00E	цo		³⁵ /87	52	SILT	20					
	96+25E	50		PF/ET	33	SILT	25					·····
	96+50E	50		BT	64	SANOY	10					
	96-75E	40 -			Gy/BR	CLY	10					
	97401 E	40		5т ("Y/BR	SILT	20					
	97+25E	60				SANDY	6					WET - POOR
	97+50E	50			GY	SANDY	0					WET- PECR
	77475E	70			GY	SANOY						WET - POOR
	98100E	60		Вт	67	Sur	10	VA				CREEK
	98+25E	50		BF	RB		60	SA				
	98.50E	30		BF	- 1		50	VA				· · · · · · · · · · · · · · · · · · ·
	98+75E	60		₿F	<u> </u>		40	VA				

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199197	SOIL	. SMPLE	ES		PROPER	TY PROJEC	T	ELF			SAIP	LER <u>B</u> .W
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	z	ROUND		SLOPE	SEEPAGE	COMMENTS
JIHHN	99+00E	50		BF	RE	SILT	10	SA				
	99+25E	40		BF	1B	SILT	5	SA				
	97+50E	40		BT	Gr	CLY	5	SA	-			
	99+75E	50		BT	Gy	simpler	15	SA				
	100+000	30		BF	RE	CLY	15	SA				SAMPLE TAKEN 9M E OF STATION
	100+25E	60		BF	RB	SILT	1	SA /SR				
	100+50€	40		EF/5T	E3/cy	SIT/CLY	10	SA				
	100+75E	30		RF	RB	CLY	5	1/A				**************************************
	101+00E	30		35	RB	SILT	10	SK				· · · · · · · · · · · · · · · · · · ·
	1CH 25E											
	101+50E											
	101+75E											
	102+00E											
5145+50N	96+00E	40		Br	67	CLY	20	SA				
<u>5 145N</u>	96+00E											
	96+25E	40		EF	BR	SILT	20	SA				
	96+50E	30		[₽] [,] /BF	GY/BR		65	VA				
	96+75E	60		BT	GY	Silt	35	sa/Ja			_	
	97+00E	20		Ет	GY	Silt	20	SA				
	97+25E	60		BF	ER	SILT	10	SA				
5148+50A	96+00E	40		BF	LRB	SILT	10	VA				
5145N	97+50E	50		Br	GY	SAND	20	5A			-	
	97+75E	30		BF	BR		/0	SA				
	98+∞E	40		BF	BR		1	SA				-
	96+25E	50		8F	BR		10	SA				
	98+50E	50		BF	BR		15	SA				
	98+75E	60		BF	BR		10	SA				
	99400E	40		BF	BR		10	SA				· · · · · · · · · · · · · · · · · · ·
	99+25E	50		BT	GY	CLY	15	SA				
	99+50E	70			CY/RB	SILT		SA				
	99+75E	100		TF	GY		10	SA				Pack
	100+00E											NO SAMPLE - SWAINP

1991 97	SOIL	SAMPLES			PROPER	TY PROJECT	۲ <u> </u>	ELF			SAMPI	
SAMPLE NG.	GRID LOCATION	DEPTN (c=)	THICK (c=)	HORIZON	COLOUR	PARTICLE SIZE	z	ROUND	its Comp	SLOPE	SEEPAGE	CONNENTS
J 145N	100+25E	100		TF?	GY	SANDY	50	SA				
	100+50E	80		TF?	GY	SANDY	50	SA				
	100+75E	80		TF?	GY	SANOY	50	SA				
	101+00E	60		TF?	GY	SANDY	50	SA				
	10H25E	40		TF?	ଟ୍ୟ	CLY	0					
	101-50E	50		TF?	GY	SILT	0				-	
	101+75E	60		87	RB	SILT	10	VA				
	102100 2	70		BF	RB	SILT	10	VA				
5146N	96+00E	50		BF	LB	SILT	20	SA				
	96125E	50		BF	RB	SILT	25	SA				
	96150E	70		BT	GY	CLY	30	SA JUA				
	96+75e	40		BT	67	SILT	40	VA SA				
5147150N	96+00E	50		BF	LRB	SILT	10	SA				
5 146N	97+00E	20		Rт	GY	Sitt	30	SA -SR				
	77+25E	80		BT	GY	SILT/ELY	8	SA/SR				
	97+50E	50		Br	64		25	SA/SR				
	97+75E	ю		₿₽	DBR	CLY	30	SA				
	98+00E	60		BF	RB	SILT	30	SA/SR				
	98+25E	70		BF	₽£	CLY	30	SA				
	98+50E	40		BF	RB	SILT	20	SA				
	98+75E	50		BT	ey	SILT	25	SR				
	39+∞E	60		BF	RB	SILT	15	SR				
	99+25E	50		BT	GY	SILT	25	1 – 1				
	99+50E	30		TF	GY			VA				
	99+75E	60		БF	₽₿	SILT/ELY	35	SA/SR				
	100+00E	70		вт	67	CLY		SA				
	100+25E	40		BT	GY	SILT		SA				
	100+50E	40			EL/CY	_	10	VA				· · · · · · · · · · · · · · · · · · ·
	100+75E	60			BR/GY	'		SA				TAKEN 9M E. OF STATION
	101+00E	40		TF	GY		75	VA				
	101+25E	60		TF	GY	CLY	75				·	WET-POOR
	101+50E	40		BF	RB	SILT	10	VA				ann an the second second second second second second second second second second second second second second s

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1991 97	SOIL	SAMPLES			PROPER	TY PROJECT	r 🕹	UEL	-EL	F	SMP	LER 13 W
SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	x	ROUND	COMP	SLOPE	SEEPAGE	CONNENTS
5146N	101+75E	40		BF	RB	SILT	75	VA				POOR
	102+0CE	50		BF	RB	SILT	75	VA				
	102+25E	40		3F	RB	SILT	20					
	102+50E											
	102+75E											
	/03+00E										-	
	96700E	50		BF	LB	SILT	15	SA				
5147N	76+00E	60		ΒT		SILT/CLY	30	SA/SR				
	96+25E	90		ВT		CLY	25					
	76+50E	80		BT		CLY	20	VA/SA				
	76+75E	50		ßF	RB	SILT/CLY	20	SA				
	97+00E	50		RF	ŔВ	SILT/CLY	15	SA				
	97+25E	40		BF	RB	SILT	15	VA/SA				
	₽7+ 5∞€	50		BF	RB	SILT	10	VA/SA				· · · · · · · · · · · · · · · · · · ·
	97+75E	50		BF	RB	SILT/CLY	20	SR				·
	78+00E	ЦÕ		BF	RB	SILT	15	sa/va				
	76+25E	50		BT	GY/RB	SILT	20	SR/SA				
	98+50E	60		BT	GY	CLY SAND	25	SA				
	9E+75E	50		B7	GY	CLY	10	SR				
	99+00E	40		BT	GY	CLY	10	VA				•
	99+25E	60		?	GY	SAN	:					
	99+50E	30		?	GY	SAND						
	99+75E	100		?	GY	SANDY						
	100+00E	70		Br	CY	CLY		VA				
	100+25E	70		?		SAND						CREEK
	100+50E	50		?	15K	SAND						Creek
	100+75E	<i>и</i> 0		?	Ba	SAND						CREEK
	Jol-scE	40		Br	BR	SANO		SA				· · · · · · · · · · · · · · · · · · ·
	101+25E	50		BT	64	SAND		SA				· · · · · · · · · · · · · · · · · · ·
	101+50E	80		?	GY/BL	SAND						
	101+75E	50		BT	GY		10	SA				
	162+00E	40		BT	GY	CLY	35	SA				

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					PROPER	TY PROJECT	r <u> </u>	ELF			SAIP	LER B.W.
SAMPLE NO.	GRID LOCATION		THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE	x	ROUND	TS COMP	SLOPE	SEEPAGE	COMENTS
147N	102+25E	39		?	WH	CLY	70					BEDROCK
	102+50E	40		BF	RB		40	VA				
	102+75E	40		BF	RB	SILT	30	VA				
	१८३७०९	40		BF	ÂВ	SILT	25	VA				
148N	96+00E	70		B F	CY/LB	SILT	10	SA				
	96125E	50		BF	ER/GY	CrA	15	SA				
	96+50E	60		BF	RB	CLY	20	SA			- **	
	96+75E	60		BF	Rß	SILT	45	٨V				
	77+00E	50		BF	ŔВ	SILT	60	VA				
	77+25E	60		BF	RB	SILT	10	SA				
	97+50E	70		BT	GY	SILT	25	SR				
	97+75E	70		BF	RB		30	ŚA				
	98+00E	70		<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	RB	SUT/	20	SA				
	98+25E	60		Вт	GY	SILT	15	SA/SR				
	48+50E	50		FT	GY	CLY	10	SR				
							-					
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	SAMPLE	1											ER ZWS
	NO.	GRID LOCATION		THICK (cm)	HCR1200	COLOUR	PARTICLE SIZE		FRAGMEN ROLIND		SLOPE	SEEPAGE	COMMENTS
L	150N	100+25E	.7	,15	87	GR	5#/C	35	VA	5	ъ		
	1	506	.4	.15	BT	GR	c	3	SA	5	40		
		75 E	+n	bo	Ban	hple						4	
		101+00E	.5	<u>بر</u>	BT	MB	SH/C	25	SA	S	15		
		25 E	.5	-25	BT	mß	SHC	25	SA	S	30		
		50E	.4	25	TF	GR	Sa	75	VA	5	30		
		TSE	.5	.15	TF	68	C	x	AV	5	15		
		102+ 00E	.5	-2	TF	GR	<u>ح</u>	75	VA	5	15		
		¥£	.7	.15	BT	GR	5n/c	55	VA	5	10		
		JOE	5	·2	BT	GR	54	55	VA	5	15		
/	V	75E	.6	ý.	TF	GR		70	VA	5	30		
┫	150N	103+00E	.5				Sh	20	SA	5	25		
F	5148N	103+00E	8	्र	Bτ	MB	51+	30	SA	5	10		
		102+75E	ר.	.3	BT	MB	51+/Sa	30	SA'	5	5		
	1	506		4	BΤ	OB		ઝ	SA	5	30		
		256	. ۲	.15	87/3F		S.	25	SA	5	25		
		00E		こ		5	ple						· · · · · · ·
		101+75E	·5	\ 2	BTAF	m8/64	514	55	YA	5	15		
		50E	.6	.3	BT	MB	Sa	40	VA	5	ß		•
		256	.5	.2	BT.	MB		3	SA	5	20		
		œ				MB			SA		20		
		100+75E		ý		GR		ł	VA	5	30		
ſ		SOE		15		MB			5A	Ş	30		
Γ		256		Ś		RB			SA	5	15		
			、7		BT		SIK		· · · · · · · · · · · · · · · · · · ·	5	10		Boerqy
		99+75E		.15		RB			SA		20		3.
		SOE			BF?	RB			SR		35		*maybe Gerricrete
		ase			BF	RB			SA		30		
Γ	V	ŒΕ							SA		35		
	5148N	98+75E				RB			SA		15		

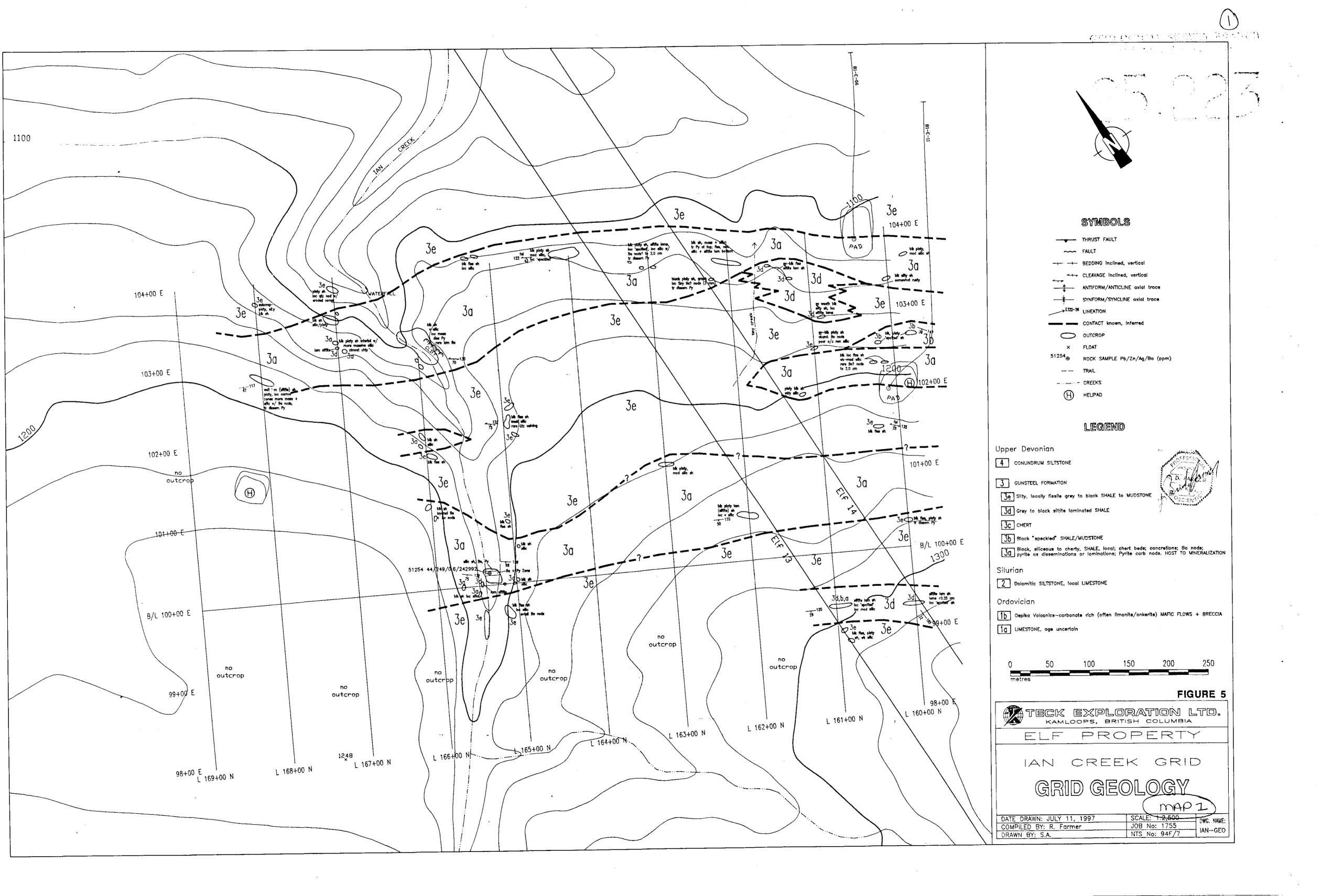
SAMPLE	GRID DEPTH THICK					PARTICLE			LCKG			uer <u><i>RF</i></u>
NO.	LOCATION	(CE)	(cm)	HORIZON	COLOUR		X	FRAGNE ROUND		SLOPE	SEEPAGE	COMMENTS
J 149N	- 103100E	70	10	?	LB	SANDY	40	SR	VAR	FLAT		Boneondyundingional
J149N.	- 102+75E	50	0	BG !	MB	5/5	15	SA	п	н		WET SAMPLE
J149N-	102+50E	25	5	BF?	RB	p.	20	SA	ιt	ΣE		Sondy elgo from tools TO DK RB.
5149N-	102+250	70	10	TF?	Sy/BR	SANDY	50	SA	SH.	ÞE		SUBCROP RIGHT ON TOPOF BEDRIC
5149N-	102+00E	100	10	BT ?	L.Gy/82	s/c	15	N	n	5E		Clayer u/red/ An beles, Mois:
5149N-	101+75E	45	10	Bm?	m Br	5/5	35	SR/ SA	ц,	H .		PROB. BOOK - TRANSP. ?
J149N -	10:1 +50E	50	10	7	m Bre	SANDY	50	A - ⊆ H SR - MMCD	11	н		BUTWASH OR STREAMBED? - POOR
J149N -	101+25E	25	5	BF?	γB	s/5	25	SA	Min ED	ч		2 cm backed about .
J149N -	101+00E	60	16	TF	мB	Sondy	6	A	SH-	п		V. Poor No Dav. SH TALUS.
51492-	100+75E	30	/0	BF?	RB	5/S	15	A	54	15E		Below v. thinkached.
514910 -	100+50E	30	10	8≢?	MB	4	ıt.	1f	N	10E		Poor Sandy rocky frag rich Hoing.
5149N-	100+25E	35	10	8??	мв	smop	ĸ	<i>ii</i>	11	Ц		SILIS FERRICRETEQ SOCH LEPTH.
5149N-	100+00E	50	10	BF?	мв	Sendy	i(15	4	<i>4</i> 1		FEARICARTE COBBLES
5 149N -	99+75E	чо	4	Be	OB	s/s	15	10	10	5E		WK backed above. Henrick
J 149N -	99+50E	40	/0	TF	64/B	Sendy	60	И.	u	10E		Poor PROB NSS.
J149N-	99+25E	90	10	BM?	cy/Br.	11	35	1	//	100	: <u>-</u>	Poor
5149N-	99+00E	50	τι	TF?	ц.	h	40	11	H	4		Ч
5149N-	98+75E	40	16	8F?	YB	5/5	Z	u	11	4		· · · · · · · · · · · · · · · · · · ·
5(49N -	98+50E	45	<u>_H -</u>	BFHF	YB	u	20	<i>h</i>	(1	4		Poor SF in Talus
	98+25E	30	10	BT?	YB	s/c	15	11		11		•
5149N-	98+00E	45	• 11	BFI	<u> </u>	5/5	15	1C	10	11		
514911-	97+76E	40	H.		MR	ч.,	ų.	11	h	K		2CM LEACHED
T141N-	97+50E	30	6	BF	RB	<u> </u>	ų.	4	d^{\dagger}	1	- 	Good BF.
	97+25E	11	10	BF	RB	11	ەم	11	BI	ĪS		····
14911	97400											NO SAR. Mas Bander To O/C CLIFE
TI49N	96+75			20		<u>ا</u>			-		N	OCCLIFF
514FIN	96150	40	10		YB	11	11	11	\mathcal{A}	20		
	96+25	25	5	ßF	YB		1/	<u> -</u>	Ξ Ν	FLAT		GOOD LEACHED
514910	96+0CE	11	N	1)	11	16	[]	11	11,	.11		· //
144+50	96400E	jl –	\mathcal{H}_{\perp}	$_{e}H$	1/	11	1.	11	· //	11	inti it	11 11
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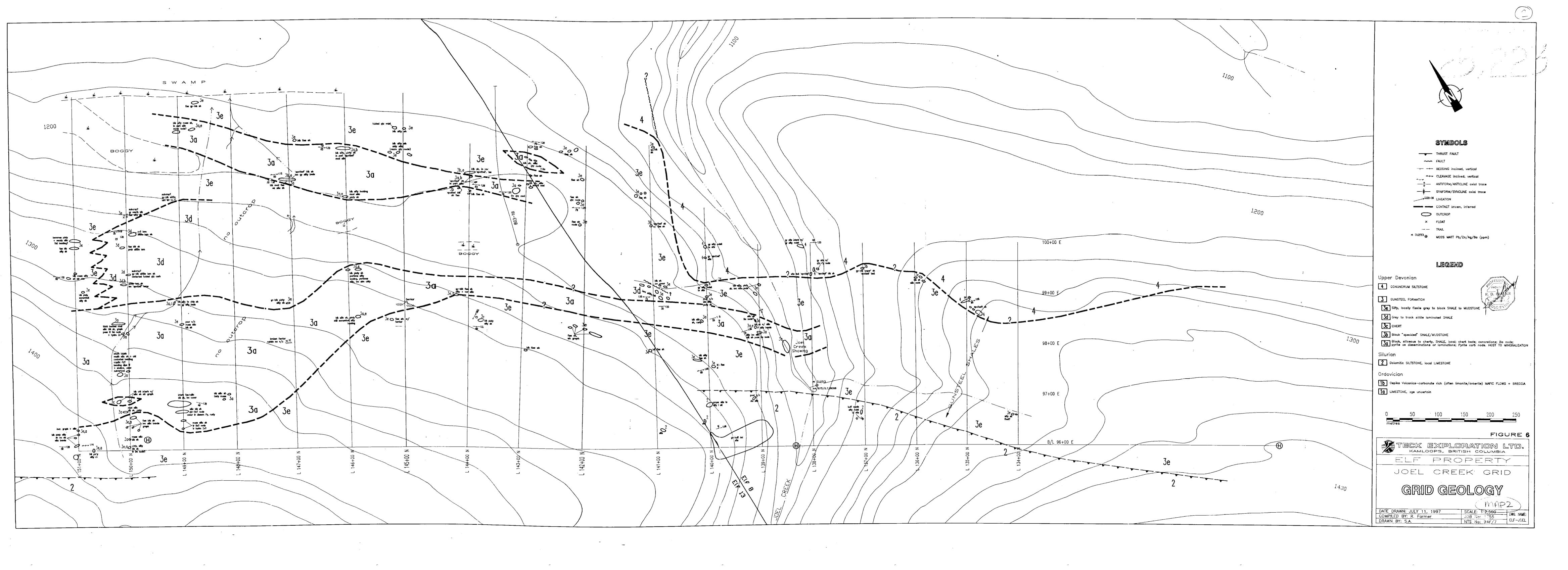
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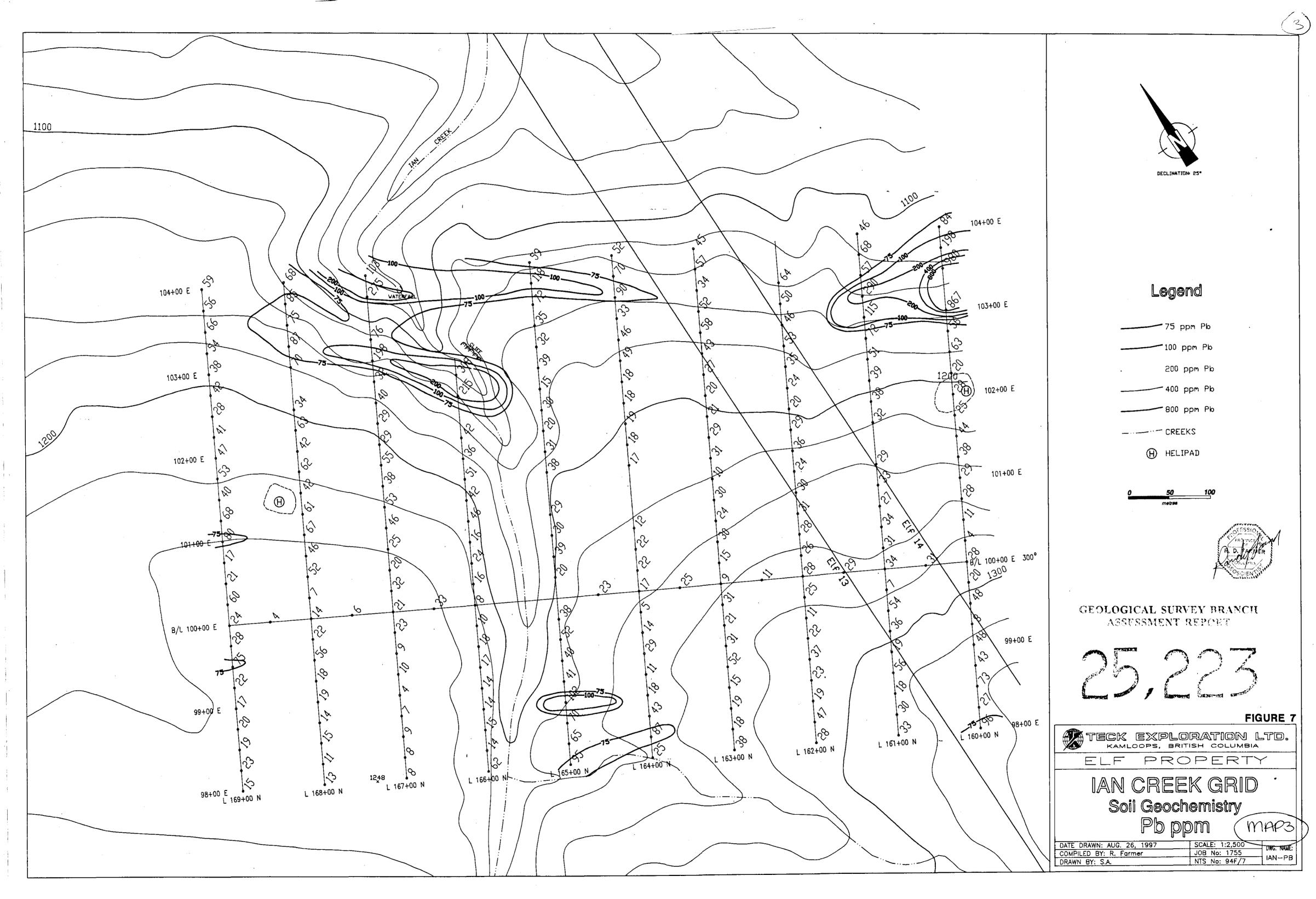
	1989 /99	7 SOIL	SAMPLI	ES		PROPERT	PROJECT	۲	ELF	 · ····	SAMPI	LER CAMAS
	SAMPLE NO.	GRID LOCATION	DEPTH (cm)	THICK (cm)	HORIZON	COLOUR	PARTICLE SIZE		ROLIND	SLOPE	SEEPAGE	COMMENTS
	JISIN	- 96+00E	25		ßF	Br		/0	VA			
	JISIN-	96+25E	ಎಂ		Т	LB		40	VA	 		STEEP SLOPE E.
	J151N-	96+50E	70		BT	LB		ನಿಂ	VA	 		
	JISIN-	96+75E	40		BT	LB		30	SA			
	JISIN-	97+00E	60		Т	_BK		30	SA			
	J151N-	- 97+25E	100		Bt/bf	RBKy			SA	 		
	J151N-	97+50E	.20		B₹	RB		35	SA			under stump
	JISIN-	97+75E	50		Bt/BF	RBKY		35	SA			
Ì	JISIN	98+00E	40		BF	RB		15	SA	 		
	5151N-	98+25E	100		8t/BF	RB	· _	30	SA	 		
ļ	JISIN	-98+50E	35		8t/BF	RB		20	SA	 		
	J151N-	98+75E	40		BT	LB		10	SA	 		
ļ	J151N-	99+∞ E	50		BT/BF	LB		20	5A			
	J151N-	99+25E	50		BF	Lß		25	SA			
	J151N-	99+50E	40		Bt/BF	<u>_</u> #		45	γA			
	3151N-	99+75E	50		BF	RB		35	SA			
ļ	JISIN-	100+00E	50		8F	11		50	VA			
	J151N-	100+25E	50		8F	11		40	SA	 		
	JISIN-	100+50E	45		BT/BF	LB		25	SA			
· -	J151N-	100+75E	50		BT	LB		_	SA	 		HIT BEDROCK
	J151N-	101+00E	70		BF	RB	•	30	SA	 		
	JISIN-	101+25E	75		BF	RB		5	SA	 		WET
	J151N-	101+50E	40		BF	RB		25	SA			
	SISIN-	/01+ 75E	ର		BF	RB		10	SA	 		
	J151N-	102-000	70		BT	LB		25	SR	 		
	J151N-	102+25E	90		BT	LB/G		10	SA			
	TISIN-	102+50E	100		BT	LBIG		30	UA			
	JISIN	-102+75E	100		87/8F	11		10	54	 		
	JISIN-	103+00E	100		ВТ	1		30	SA			
	5150+50N	- 96+00E	30		BF	RB		5	SA	 		
)	JI50N-	9600E	40		T	LB		60	٧A			
1		96+25E			T	Gy /Br		70	VA			

19959	7 SOIL	SAIPL	ES		PROPER	ry project	r	ELF			SAMP	
SAMPLE NO.	GRID LOCATION	DEPTH (cm)		HORIZON	COLOUR	PARTICLE SIZE	z	ROUND	ITS COMP	SLOPE	SEEPAGE	CONNEXTS
150N	96+50E	60		\mathcal{T}	Gy/Br		80	VA				V. STEEP
5150N-	96+75E	60		T	i.		70	UA				11
150N.	97+00E	40		T	11		70	VA				11
150N-	97+25E	50		T/BF	LB		30	SR				
150N-	97+502	50	<u> </u>	BF	LB		R	SR				
150N-	97+75E	100		BT/BF	н		15	SR				
150N-	98+00E	/00		BT	Gy/Br		5	SA				
150N.	98+25E	50			Gy		10	SR				CREEKSIDE
150N-	98+50E	60		87/8F	Gy/BR		10	5R				il
150N-	98+75E	40		BF	RB		30	SA				
-150N-	99+00E	40		BF	RB		20	5R				
150N-	99+25E	50		T/BF	RB		80	VA				
FISON-	99+50E	50		11	л.		8 C	VA				
SISON-	99+75E	70		ßf	RB		60	VA				
150N-	/00+00E	50		BT/BF	RB		60	VA.	_		-	
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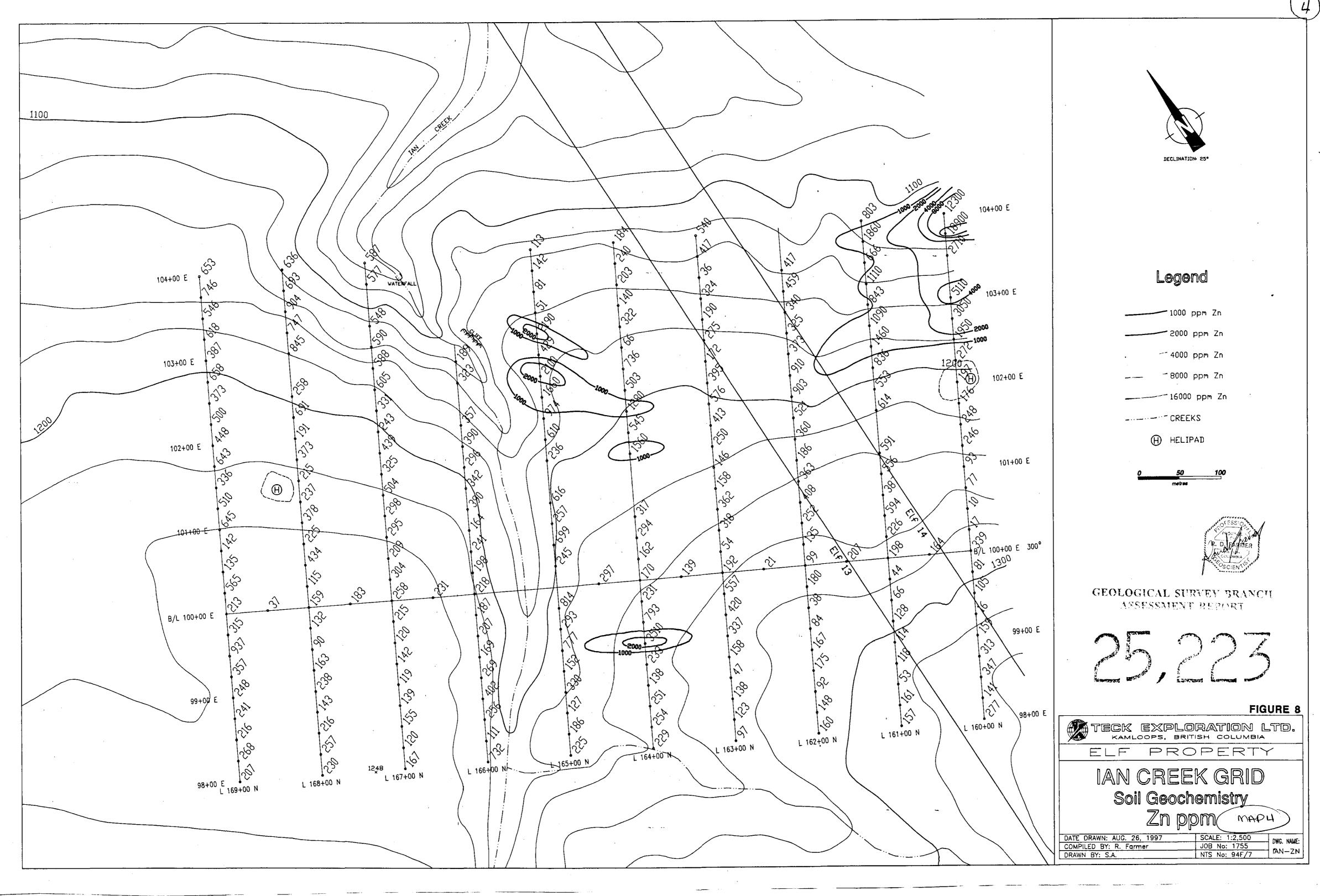
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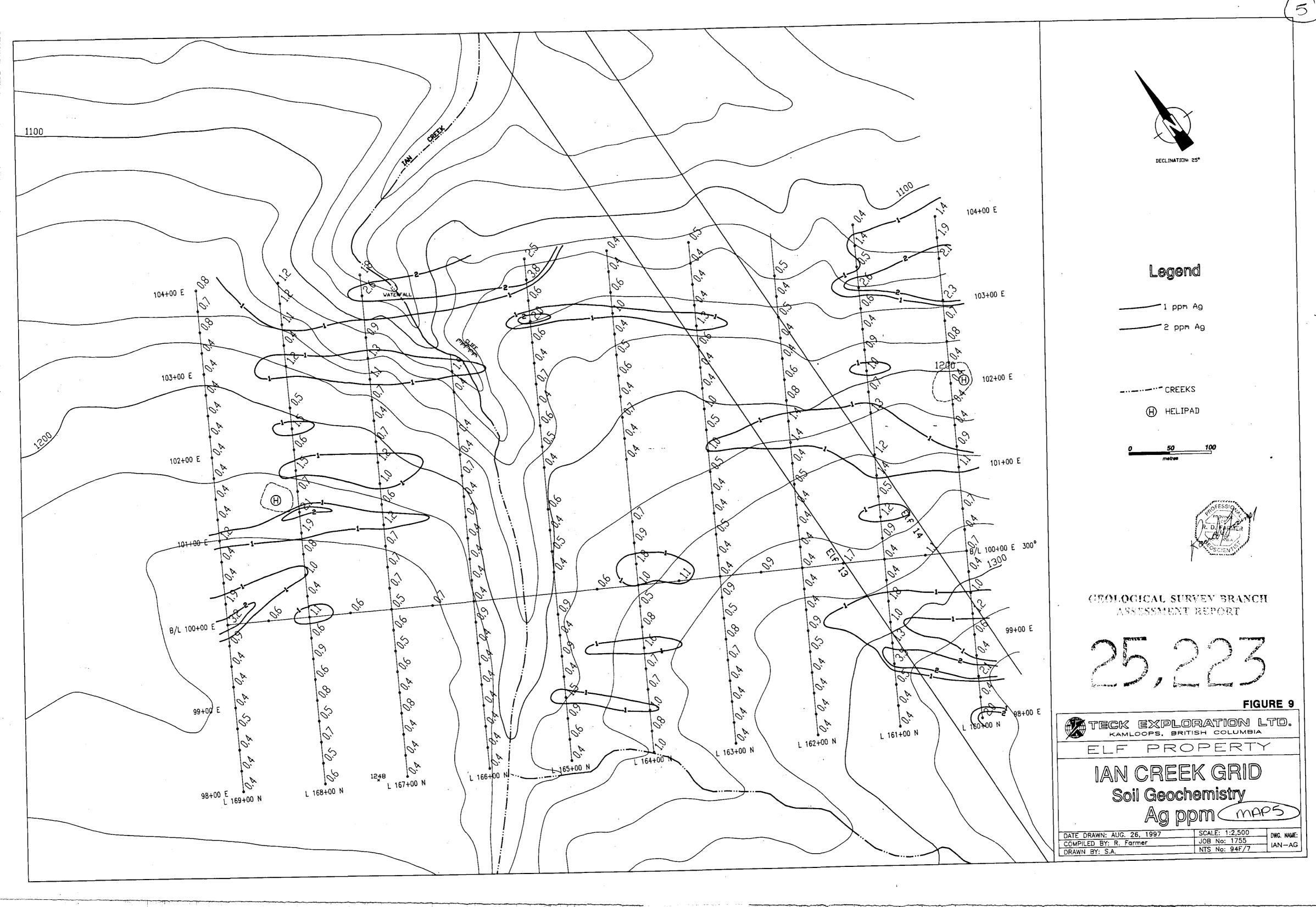




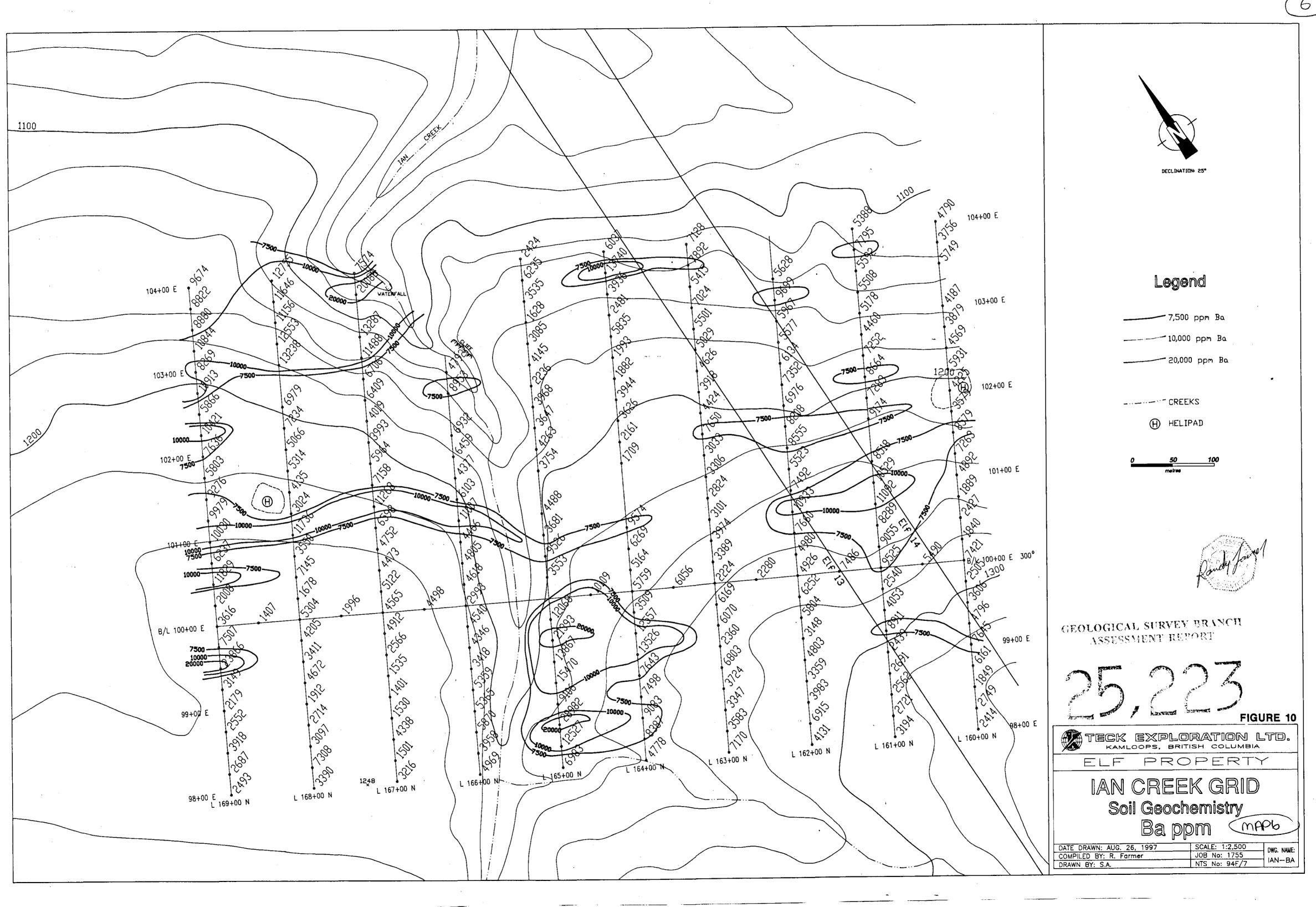
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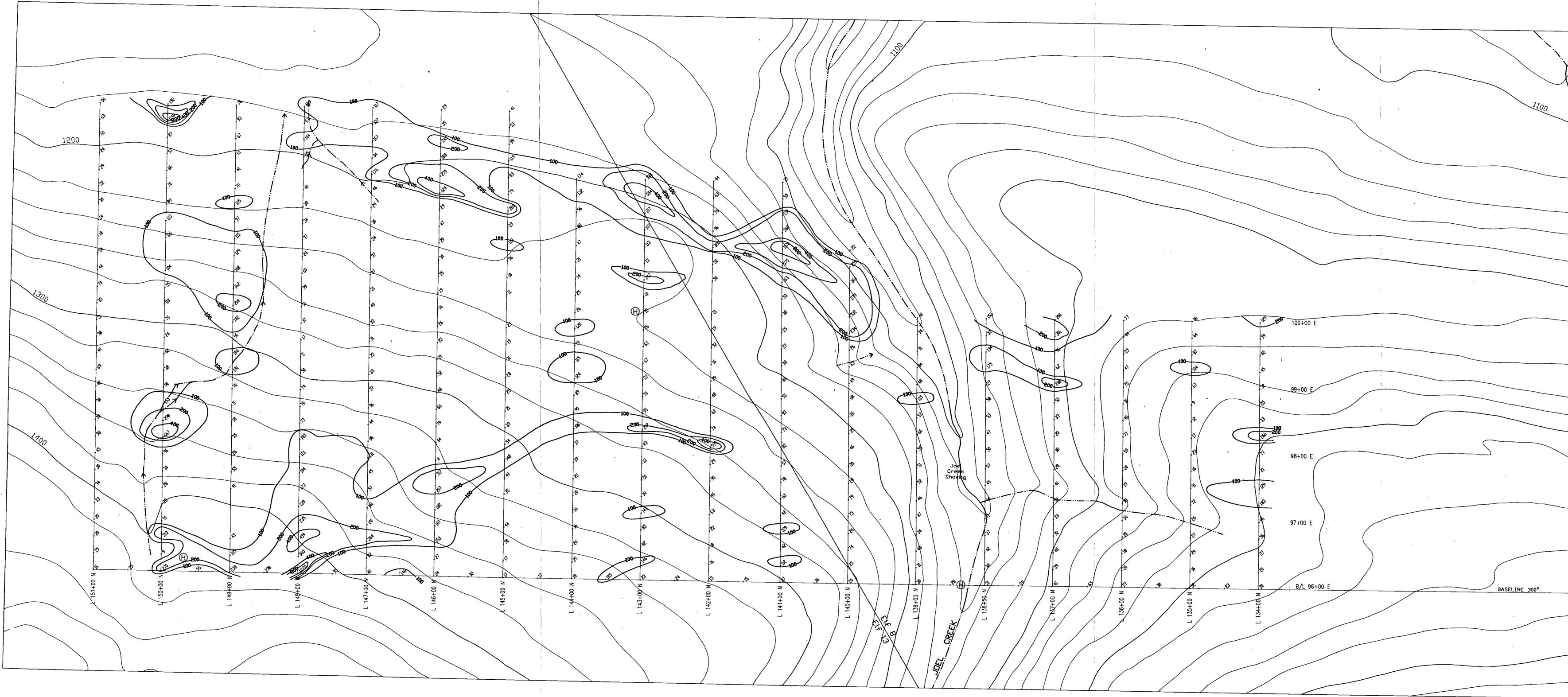








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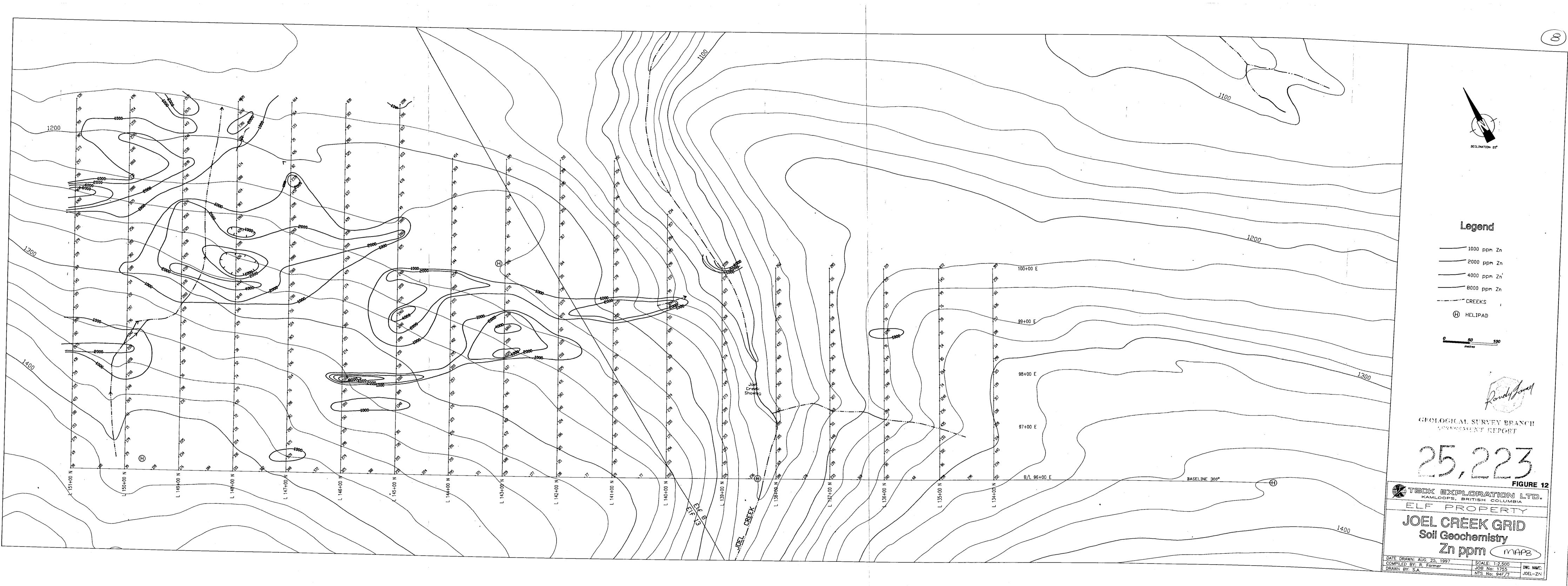


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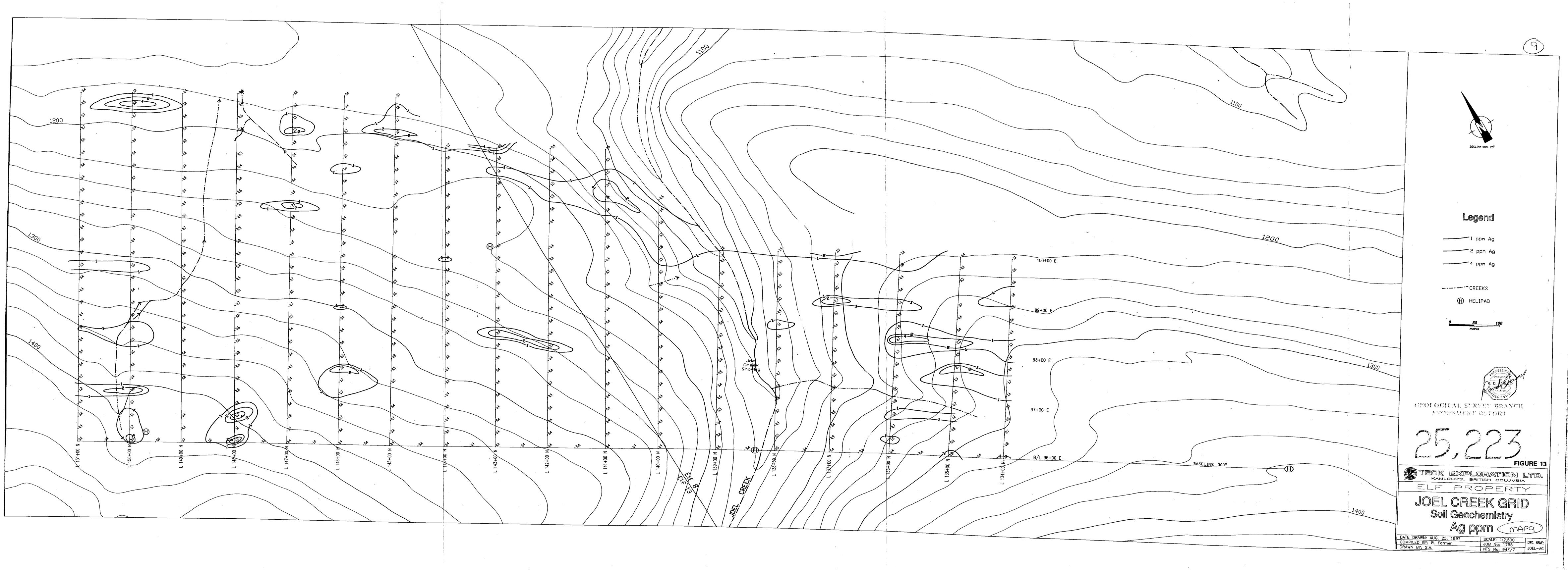
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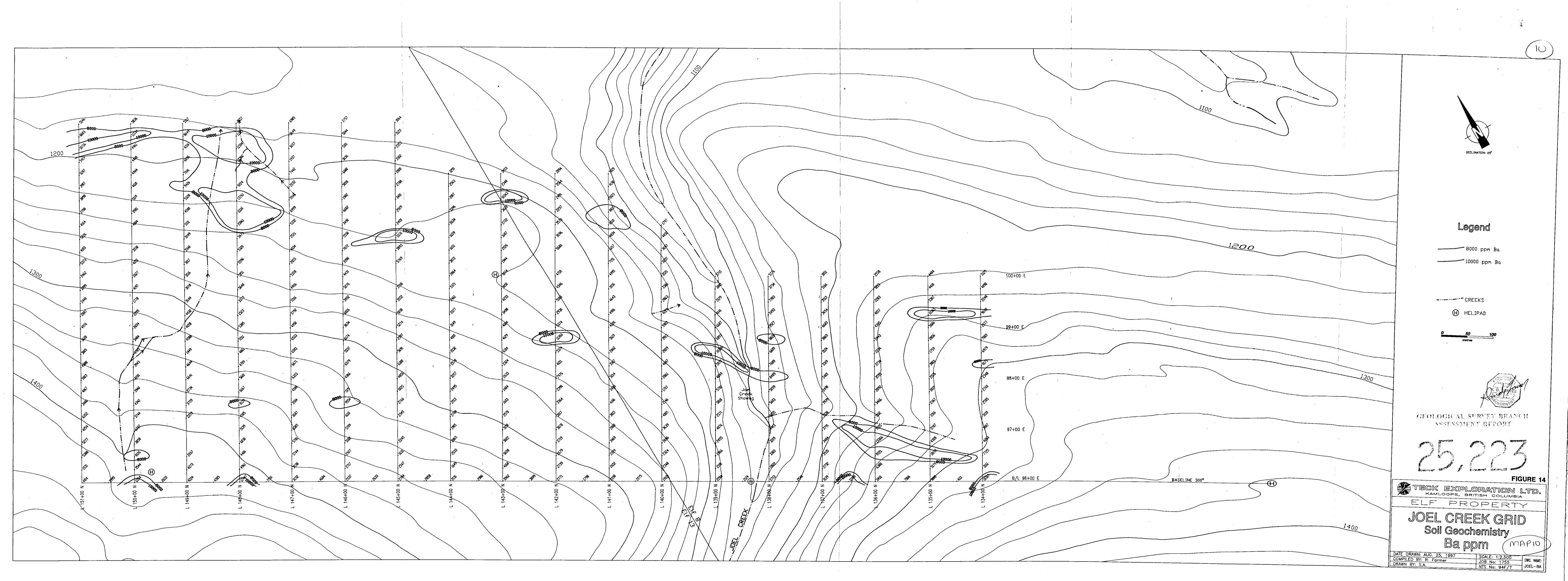
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		7
		DECLINATION 25"
		Legend
1200		
		200 ppm Pb
		400 ppm Pb
		800 ppm Pb
		CREEKS
	1	H HELIPAD
· ·		0 <u>50</u> 100 metree
	1300	PROVINCE COMER
		GEOLOGICAL SURVEY BRANCH ASSUMMMENT REPORT
$\overline{\mathbb{H}}$		FIGURE 11 TECK EXPLORATION 1 TO
		ELF PROPERTY
	1400	JOEL CREEK GRID
	- 700	Soil Geochemistry
		DATE DRAWN: AUG. 25, 1997 SCALE: 1:2,500 COMPILED BY: R. Farmer JOB No: 1755 DWG. NAME
		COMPILED BY: R. FormerJOB No: 1755DRAWNDRAWN BY: S.A.NTS No: 94F/7JOEL-PB



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