1990 EXPLORATION PROGRAMME

ON THE

ZUMAR PROPERTY

VERNON MINING DIVISION

NTS 82L\4E

Lat. 50° 01' N   Long. 119° 38' W

For: AMARADO RESOURCES LTD.,

135-4631 Shell Rd.,
Richmond, B.C.,
V6X 3H4.

[Owner/Operator]

By: J. Murray, B.Sc.,

July 28th, 1991.

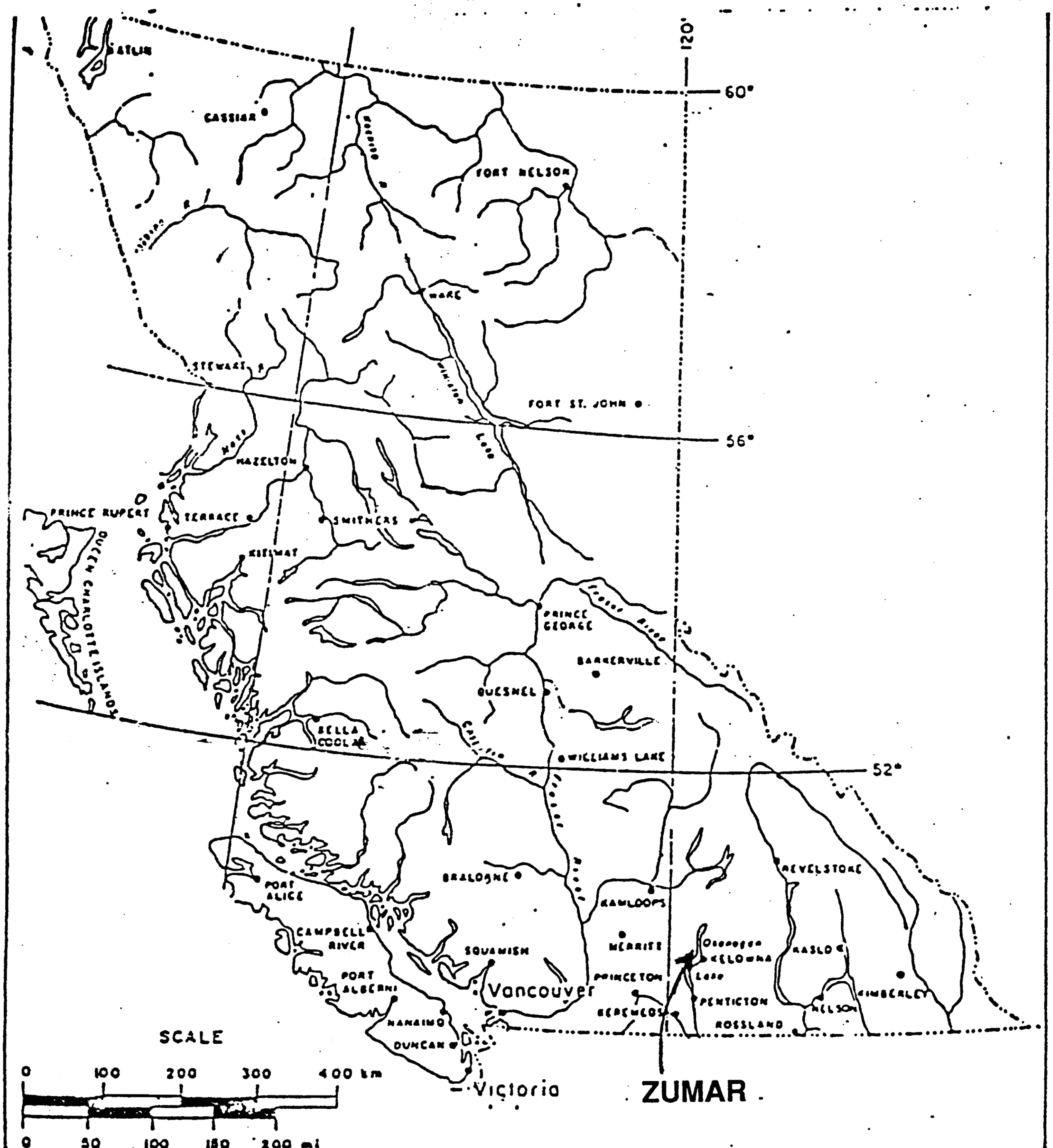
21,600

TABLE OF CONTENTS.

LIST OF FIGURES.

LIST OF TABLES.

GEOCHEMICAL RESULTS



AMARADO RESOURCES LTD.

ZUMAR PROPERTY

LOCATION MAP

Date: July 28/91	Drn: J. M.	Fig. 1

I. SUMMARY

The Zumar property is a gold prospect situated in an area of gently rolling topography in the Inter-Montane Belt of South-Central B.C., on the west side of Okanagan Lake, approximately 30km NW of Kelowna.

Gold exploration has been carried on in the area since the late 1800's, with minor placer production from several creeks in the region. In the 1930's the White Elephant property 16km NE of the Zumar property saw minor gold production. The Brett showing 24km N of the property was recently explored by Corona Corp., and is reported to have encountered significant values.

At the Zumar property, where investigation began in 1979, a narrow auriferous quartz vein has been exposed on the Zumar 2 claim. This vein is a near vertical quartz fissure in indurated volcanics, and is open both along strike, and down dip. To date the indicated grade is marginal, a 60.8 ton shipment to Cominco's Trail smelter in 1980 having returned 0.139 oz/ton gold, and 1.23 oz/ton silver.

The property is underlain by a mixed assemblage of volcanic and sedimentary rocks. Previous workers have assigned the oldest rocks found on the property to the Cache Creek Group of Permian age, and the youngest rocks to the Tertiary, (Eocene), Kamloops Group. More recently rocks in the area have been called Eocene and Upper Triassic Nicola Group volcanics. (Meyers & Taylor, O.F. 1989-5). The package is intruded by granitic rocks of Jurassic age, and by Tertiary trachytic feldspar porphyry dikes.

Precious metal values have been demonstrated to exist in narrow quartz veining related to underlying granitic intrusives.

Until 1990 exploration had focused on the Zumar 2 and Zumar 4 mineral claims, and consisted of trenching along the known vein, diamond drilling, geologic mapping, soil sampling, and magnetic and VLF-EM surveys. This work has shown that precious metal values persist to a depth of 60m, (albeit over narrow widths).

The 1990 programme focused on extending the Zumar vein with prospecting and a Self Potential survey, and on investigating previously unexplored areas of the property on Zumar 3 and Zumar Gold.

II. TERMS OF REFERENCE.

In May 1990 the author was engaged by Amarado Resources Ltd. to conduct an exploration programme on the Zumar property. This programme was designed to further investigate the known Zumar vein and anomalous areas, and to extend reconnaissance geochemical sampling onto adjacent, unexplored portions of the property.

III. LOCATION. Cf. Fig. 1.

The Zumar property is situated approximately 30km NW of Kelowna in the InterMontane Belt of South - Central B.C. on the west side of Okanagan Lake, between Terrace and Sandberg Creeks, at Lat. 50° 01'N, Long. 119° 38'W. Access is via the Bear Creek logging road up the Lambly Creek valley approximately 16 km. The Zumar 2 & 4 LCP is located some 200 m due north of the 16 km post on the north side of the road, and the workings are about 1km to the NW, reached by secondary roads.

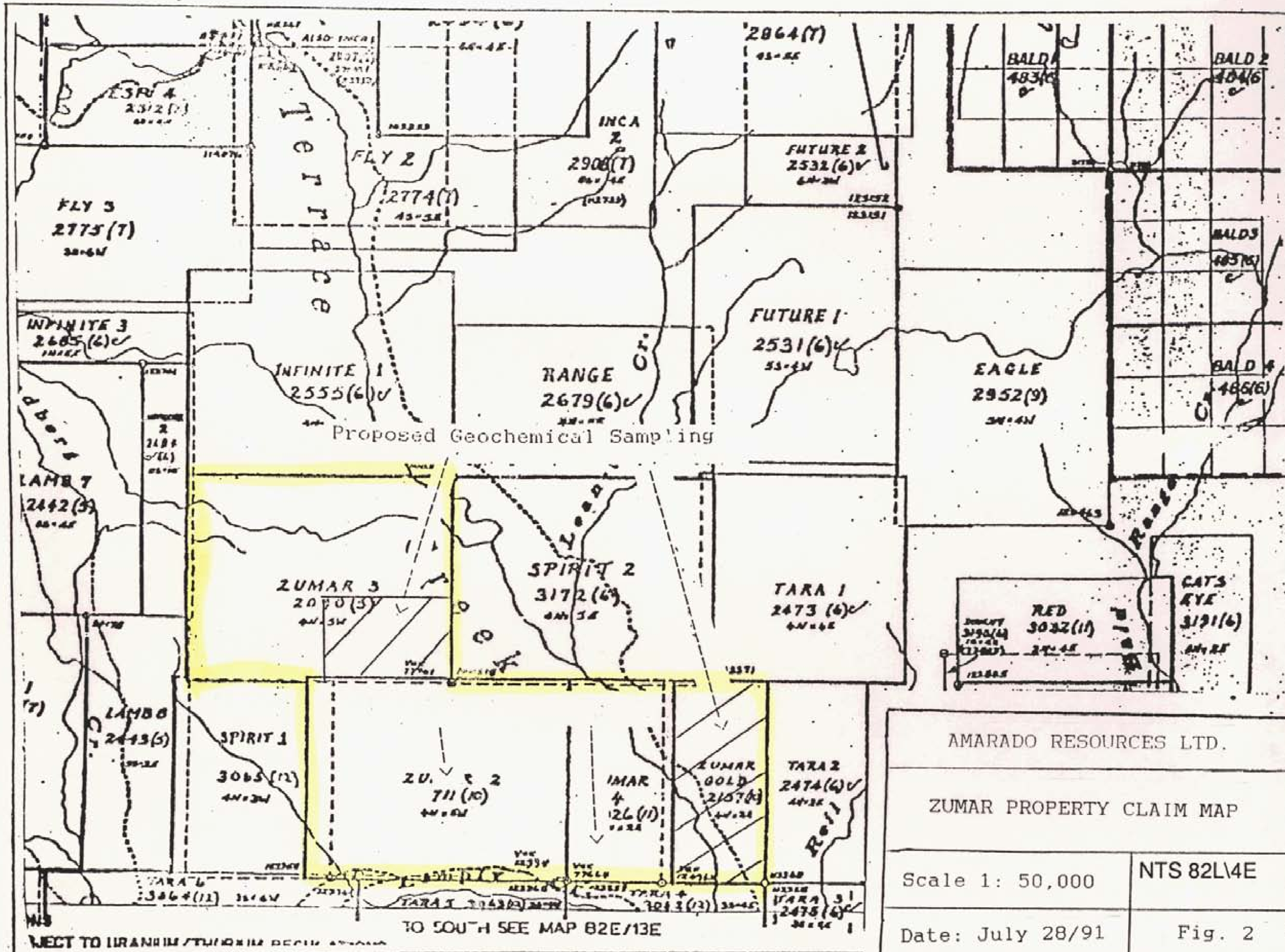
The property lies on the Okanagan Plateau between 915m - 1280m elevation. Typical of the Interior Plateau, the topography is gently rolling, with rounded ridge tops and gentle slopes deeply incised by dendritic drainage. Precipitation is sparse, and most of the claim area has been logged off, with some pine, fir, and aspen remaining. Closest available water is from a creek crossing the Bear Creek road some 6 km distant.

IV. CLAIM DATA. Cf. Fig. 2

The Zumar property is comprised of the following claims:

TABLE 1

CLAIM	RECORD	UNITS	EXPIRY
Zumar Gold	2157	8	Oct 03/93
Zumar 2	711	20	Oct 09/91
Zumar 3	2090	20	May 02/91
Zumar 4	2026	8	Nov 01/92



AMARADO RESOURCES LTD.

ZUMAR PROPERTY CLAIM MAP

Scale 1: 50,000	NTS 82L\4E
Date: July 28/91	Fig. 2

V. HISTORY.

Gold mineralization has been known to exist in the region since the latter part of the 19th Century when the west side of Okanagan Lake was prospected by placer miners. Minor production came from Whiteman, Bouleau, Equesis, and Naswhito Creeks. To the NE of the Zumar property the White Elephant produced some 6kgs of gold from small scale production in the 1930's, while 9 km to the SE, the Bluehawk prospect made a shipment of 5 tons grading 0.95 oz/ton gold.

Regional silt sampling in the 1960's led to the discovery and exploration of several molybdenum stockwork prospects. In 1983 heavy mineral stream sampling led to the discovery of the Brett deposit some 24 km to the North of the Zumar property, (and on the same geologic trend - D. Wood, B.Sc., FGAC, 1989).

The Zumar 2 claim was staked in 1979, the Zumar 3 in 1980, and other claims in the package were acquired in subsequent years.

In 1979 stripping and trenching exposed a 25 - 30 cm wide quartz vein over a 50m strike length. Between 1979 and 1984 all work concentrated on the Zumar vein.

In 1980 two shipments of hand-cobbed ore totalling 60.8 tons were shipped to the Trail smelter where returns of 0.139 oz/ton Au, and 1.23 oz/ton silver were obtained.

TABLE 2. COMINCO SHIPMENTS

SHIPMENT	TONS	Au	Ag	Cu	SiO_2	Fe	As
1	29.9375	0.112	0.95	0.10	89.9	2.9	0.01
2	30.856	0.163	1.50	0.09	87.3	3.7	0.01

In 1982 152.4m of NQ wireline was drilled in four holes exploring the vein to a depth of 30m, over a 45m strike length. This exploration appeared to show increasing vein width, but decreasing grade, with depth. [Because of the erratic nature of the precious metal distribution A.D. Wilmot, P. Eng., felt that the grade indicated by the drilling was probably not representative.]

In 1986 Wilmot completed a magnetometer and geochemical survey over the entire 28 unit area of Zumar 2 and Zumar 4. These surveys were conducted on a grid with 100m line spacings, and 50m station intervals. They produced a magnetic high, and semi-coincident copper-silver anomalies. Subsequent fill-in geochemical samples were taken at 25m intervals over anomalous areas. Wilmot felt the anomalies are explained by the shallow overburden, and by the proximity to sparsely mineralized dikes and intrusions, but that metalliferous veins are a possibility, and that the anomalies should be explored by trenching.

That same year M.S. Morrison, B.Sc., conducted a geologic survey over the anomalous areas, concluding that the Zumar vein is a mesothermal occurence in granitized rocks of the Permian age Cache Creek group.

Also in 1986, a 95m BQ diamond drill hole intersected the Zumar vein approximately 60m below surface, where it encountered 90cm of weakly mineralized, (5% pyrite), quartz grading 0.145 oz/ton Au, and 0.94 oz/ton Ag at 70.9 - 71.8m, and another 10cm of weakly mineralized, (5% pyrite), quartz between 78.8 - 78.9m which returned 0.028 oz/ton gold, and 0.15 oz/ton silver. Up to 2% finely disseminated, barren, pyrite was observed throughout the volcanics in the hole. (Other narrow, barren, quartz stingers were also logged.)

In 1988 D. Wood, B.Sc., FGAC, supervised a reconnaissance scale geochemical survey with multi-element analysis, along with magnetic and EM surveys. He concluded "the overall chemistry and structural features ..... are consistent with a north-northeasterly striking zone of copper mineralization". Significantly, he also found that "gold and silver geochemistry were found to be of limited value in outlining either the Zumar vein or the Zumar 4 target area".

The 1990 work programme involved geochemical sampling over a portion of the Zumar 3, and most of the Zumar Gold mineral claims, both previously unexplored. In addition, areas of Zumar 2 and Zumar 4 were prospected, existing trenches were tied in, and a limited Self Potential geophysical survey was conducted as an experiment to determine the utility of this method as an exploration tool for the Zumar property.

VI. GEOLOGY

Cf. Fig. 3

A. REGIONAL

"The Okanagan Valley is a major tectono-stratigraphic break which separates high-grade metamorphic rocks of the Okanagan Complex to the east from lower grade Carboniferous to Triassic metasediments and metavocanics to the west." (Meyers and Taylor, 1989)

"On the west side of the Okanagan valley, late Paleozoic to mid- Mesozoic sediments and volcanics of island arc and oceanic derivation have preserved Mesozoic penetrative deformation, and are metamorphosed to greenschist facies."

Pre-Tertiary rocks on both sides of the valley are unconformably overlain by thick sequences of Eocene volcanics and sediments, (generally unmetamorphosed).

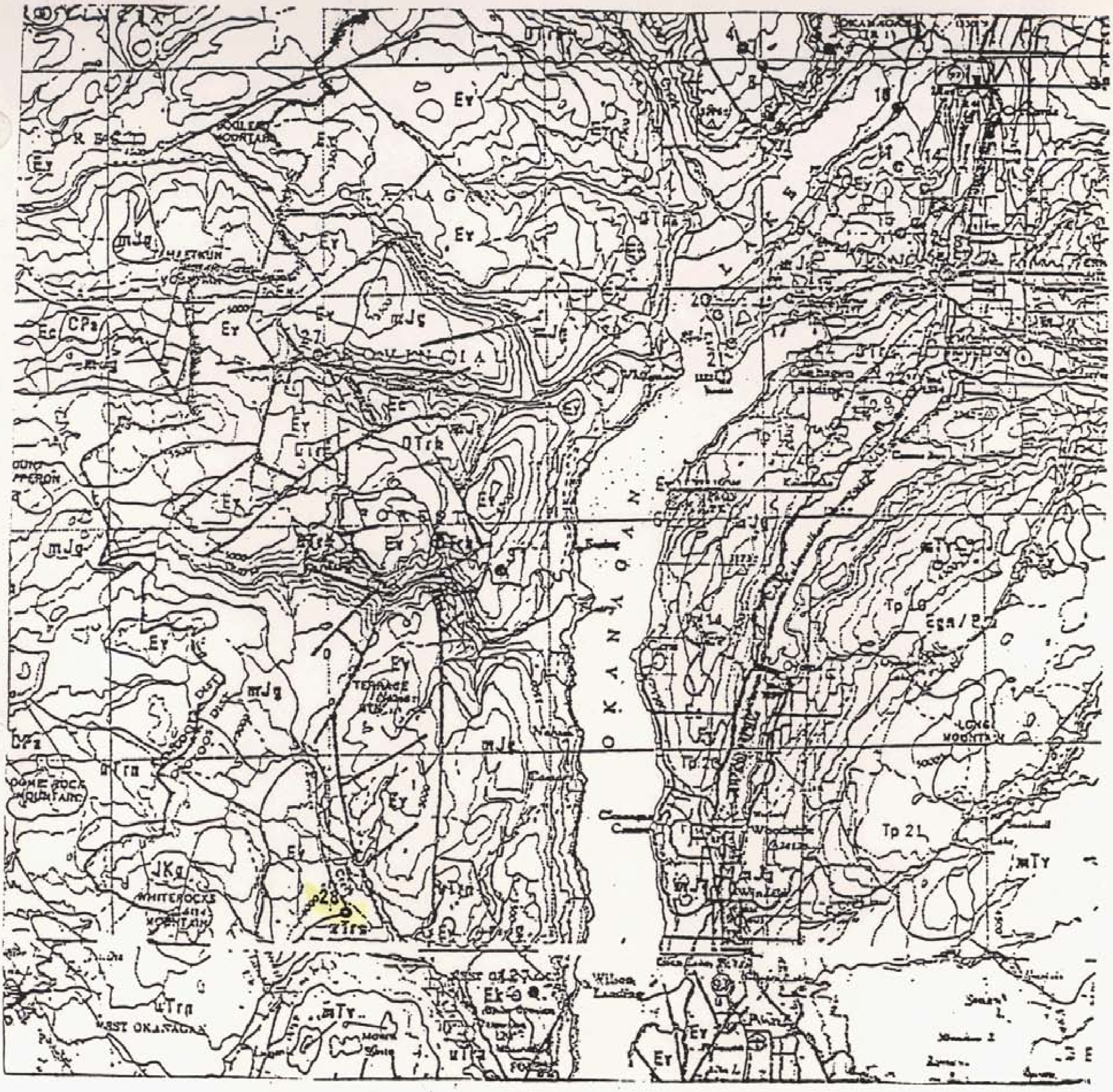
The Permian age Cache Creek group rocks are composed essentially of three units: the lowest unit is mainly argillite, the middle member is composed of andesitic lavas, tuffs, argillites, and quartzites, and the upper unit is composed of limestones, quartzites, argillites, and volcanic rocks. (Jones A. G., 1959)

The Cache Creek lavas are typically dense, fine-grained, hard, green to black andesites, of uniform grain size with very small hornblende/augite phenocrysts (as inconspicuous black speckles.) Vesicular or amygdaloidal structures are rare.

Some Cache Creek lavas are lighter and coarser, essentially fine grained diorites. Others are aphanitic, cherty, and massive, with subconchoidal fracture, resembling indurated argillites, or fine tuffs. Some may be pyritic. Cache Creek lavas appear fresh, but are considerably altered. They generally have a uniform colour, and texture.

The Triassic age Nicola Group consists mainly of lavas, with some tuff, slate, and conglomerate. The lavas are generally green andesites with augite phenocrysts, or flow breccia textures. Although massive and fresh-looking, they are silicified and epidotized. Tuffs, argillaceous tuffs, and black slate are intercalated with the lavas in small amounts.

Tertiary, (Eocene), age Kamloops Group volcanic flows are abundant west and northwest of Okanagan Lake where they form a thick, horizontal, dissected sheet lying on a Tertiary age erosional surface. Generally, they are black-grey-brown basalts which weather to a rusty red, or khaki-brown/ light buff colour. Near volcanic centres some are



LEGEND

Ev	Eocene Volcanics
jKg	Okanagan Batholith
mJg	Nelson Plutonics
uTrn	Nicola Group
DTrh	Harper Ranch
CPa	Anarchist Group
27	Brett
28	Zumar
31	White Elephant
127	Bluehawk

AMARADO RESOURCES LTD.

ZUMAR PROPERTY

REGIONAL GEOLOGY

after Meyers & Taylor, O.F. 1989-5

Scale: 1: 250, 000

Date: July 28/91 Drn: J. M. Fig. 3

andesitic, trachytic, or even rhyolitic, (light grey-pink - white-green-brown), and porphyritic textures are common. They may be amygdaloidal. Dikes of basalt commonly transect granites and older rocks in the area.

The whole sequence has been intruded by Jurassic age Nelson plutonic rocks, and by younger Eocene feldspar porphyry (trachyte?) dikes. To the north, near the Brett deposit, lies an Eocene age Coryell syenite stock.

"Lavas of the Cache Creek, Nicola, and Kamloops groups contain many similar types and there may be some confusion in field mapping, but assemblages as a whole are quite distinct. The Cache Creek lavas are relatively uniform in colour and texture, and are andesitic in composition. .... Nicola and Kamloops lavas commonly exhibit rather spectacular colours of reds, purples, green khaki, and browns. Furthermore, vesicular and amygdaloidal textures, that are almost characteristic of the Kamloops Group at least, are practically absent from Cache Creek rocks. In composition, too, the contrast between basalts and trachytes of the Kamloops lavas and the rather uniform andesites of the Cache Creek Group is striking." (Jones A.G.; 1959)

The majority of the prospects in the northern Okanagan region, (82L/SW), occur in greenschist facies, Upper Triassic to Lower Jurassic Nicola Group volcanic and sedimentary rocks, (and in Upper Triassic Slocan Group metasediments). Most of the lode gold-silver deposits in the area are mesothermal veins occurring in remnants of late Paleozoic to early Mesozoic eugeosynclinal rocks. They take the form of intrafolial veins parallel to bedding or cleavage, breccia fillings, multiple veins and stringers in ductile shears, and in discordant, brittle cross fractures. Deformed, foliated rocks originating as accretionary arc or oceanic assemblages form the host rocks.

In the Okanagan Landing - Vernon area mineralized veins are mesothermal veins "associated with north, northwest, and west trending structures that may be splays of the northern Okanagan or Louis Creek faults. The veins are gold bearing with secondary silver, copper, lead and zinc. Some veins occur in fractures oriented oblique to the foliation. Alteration is graphitic, with clay and limonite." (Meyers and Taylor, 1989)

Some deposits do occur in Tertiary, (Eocene), volcanics. Most of these have distinct epithermal characteristics. Epithermal deposits "hosted by Eocene volcanic and sedimentary sequences are inferred to be related to 'detachment-type' extensional tectonics associated with the Okanagan Fault system." (Parrish et al, 1988)

In this type of deposit the "mineralization is best developed in porous tuffs, tectonic fracture zones, and laharic and epiclastic breccia zones .... Mineralization is associated with faulting, intense brittle fracturing, widespread silicification, and moderate to strong pyritization of adjacent wall-rocks. Clay, (illite), sericite, and to a lesser extent, carbonate, are common alteration products. Quartz veins are vuggy, banded, bladed, and rebrecciated, all of which are features characteristic of boiling in a hotspring environment." (Buchanan, 1981), (from Meyers and Taylor, 1989).

B. PROPERTY GEOLOGY. (Cf. Morrison's 1986 Geological Map of the Zumar 2 & 4 Mineral Claims, and Figs. 5, 6, & 7.)

O.F. 1989-5, "Lode Gold Occurences of the Okanagan Region" by Meyers and Taylor depicts the Zumar property as being underlain by Eocene volcanics, and by Upper Triassic Nicola Group rocks. (Cf. Fig. 3) The author has been guided by this nomenclature in the current work. [Previous workers have generally mapped the older volcanics on the property as Permian age Cache Creek Group rocks.]

The Zumar property is underlain by mixed assemblages of altered sediments and volcanic rocks. To the west lie granitic rocks of the Jurassic Okanagan batholith, while Jurassic age granitics of the Nelson plutonic suite lie to the east, and granitic rocks probably underlie the property at shallow depths.

The southern part of Zumar 2 is mapped as Cache Creek andesites and sediments by Wilmot, and Morrison. The Cache Creek rocks are fine to medium-grained andesitic tuffs which have been highly deformed and brecciated by faulting. Towards the intrusive the tuffs are hornfelsed and granitized. The intrusive contact is thought to lie at shallow depth, and is exposed on the surface, some 100-200 m north of the ridge top.

Granitic intrusion into the Cache Creek banded tuffs has produced a hybrid andesite - granodiorite. Late felsic dikes and quartz veins, (like the Zumar vein), transect the hybrid zone, presumably emanating from the intrusive.

The granodiorite is a medium-grained, mafic rich rock which grades into a diorite that is notably magnetic, and contains up to 3% disseminated pyrite.

The northern parts of the Zumar property, are underlain by Kamloops Group Tertiary volcanics - a black, medium - grained basalt, with hematite coated fractures, in which outcrop weathers to brown or rusty red. Some of these basalt flows are amygdaloidal, all are highly fractured and granitized to some degree.

The ridge on Zumar 2 is underlain by volcanics intruded by late Jurassic granodiorite. The eastern part of the ridge is underlain by a Tertiary conglomerate intruded by a large Eocene dike, (and a late Tertiary trachytic dike). These two geologys are presumably separated by a major N-S fault, (in the vicinity of Line 10E), in the SW corner of Zumar 4. In the NW corner of Zumar 4, and on Zumar Gold, a prominent NW trending topographic linear is occupied by Terrace, (Big Horn), Creek. In general, creeks in the claim area have a pronounced NW-SE orientation. (Cf. Morrison's Geologic Map, and Fig.6)

The conglomerates which underlie the ridge on the eastern and southern portions of Zumar 4 are deposited in a possibly fault bounded Tertiary basin whose western edge lies on Line 10E. An attitude of $310^{0}/10^{0}$ NE has been observed in one bed. (Cf. Morrison's 1986 mapping)

Tan coloured feldspar porphyry dikes trending $010^{0}-030^{0}$ $/90^{0}$ cut the main ridge. They are 3-100m in width, are trachytic in composition, and may be feeder dikes to the Eocene Marron Formation extrusives that occur to the NE. These dikes show no evidence of hydothermal alteration, and are erosion resistant, standing out as rocky bluffs.

The Zumar vein, (on Zumar 2 claim), has been exposed over a strike length of 130m by stripping and trenching, of which 45m has been explored to a 60m depth by diamond drilling. (Cf. Fig. 7, also Wilmot's 1982 and 1986 reports). The vein strikes 100^{0}, has a nearly vertical dip, (which may vary from south to north), and averages 30cm in width. The quartz fills a well-defined fracture sparsely mineralized with pyrite and chalcopyrite. At the surface oxidation has produced a rusty, vuggy quartz, with malachite.

The vein appears to be cut off to the NW, although previous geochemical and magnetic anomalies along strike to the northwest suggested possibilities of strike extension. Indeed, it was intended that new trenching be carried out to expose the vein in this direction. However, extensive prospecting failed to detect any extension of the vein, or new target sites for trenching.

Personal communication with the previous owner/operator of the property indicates that a trench, (now filled), dug immediately to the west of the exposed Zumar vein went to 25 feet, (7.6m), without hitting bedrock. In the field it is apparent that this trench was dug in a narrow, northeasterly trending topographic low which may well be the surface expression of a fault cutting off the vein to the NW.

To the SE the vein appears to pinch and feather, and its strike may become more northerly. Approximately 80m from the west end of the exposed vein it is transected by a 3-4m wide dike consisting of highly weathered, highly altered, light buff coloured, very soft, fine-grained material. Fresher samples are black, with some large clots of biotite, and occasional calcite. This dike offsets the vein a few metres to the north on the east side.

The vein is hosted by hornfelsed, and granitized, volcanics. The country rock is moderately chloritized, and shows traces of disseminated pyrite. Limonite, hematite, and manganese stain late fractures on either side of the vein. Lesser quartz veins parallel the main Zumar vein for 5m to the north, and other narrow quartz veins fill joints at oblique angles near the main vein.

The core obtained in the 1982 drill programme showed fine-grained basalt, (amygdaloidal in places, characteristic of Kamloops Group volcanics - Jones A.G., 1959), with the quartz vein occupying a hematized fracture zone. The 1986 hole passed through interbedded andesite and basalt flows. Finely disseminated pyrite, (but no values), was present throughout the volcanics; this pyritic "halo", with feldspar, chlorite, and epidote alteration, (propyllitization), suggests a nearby contact.

Gold distribution is erratic. Average grade of the Zumar vein on surface is 0.186 oz/ton gold, 1.23 oz/ton silver, while individual values range from 0.003 to 0.234 oz/ton gold, and from 0.06 to 1.88 oz/ton silver. It is from this vein that a shipment of 60.8 tons grading 0.139 oz/ton gold, and 1.23 oz/ton silver was mined in 1980.

Wilmot calculated the grade of the 1982 drill intercept at 30m below the surface to be only 0.054 oz/ton gold, and 0.38 oz/ton silver, but with a true width of over 1m. However, the 1986 intercept at 60m below the surface returned 0.145 oz/ton gold, 0.94 oz/ton silver over 90cm from 70.9-71.8m, and a segment from 78.8-78.9m returned .028 oz/ton gold, and 0.15 oz/ton silver. Values do seem to persist at depth, albeit over narrow widths.

The vein is not heavily mineralized. It contains roughly 2-3% disseminated pyrite, and chalcopyrite, partly oxidized to malachite and azurite. Native gold is present. Preliminary flotation studies conducted on the ore in 1980 by Kamloops Research noted the presence of free gold, and that maximum gold recovery was obtained with a coarse grind. The ore had significant free silica, and minor clay minerals. Base metals were very low, with some zinc present in a high iron sphalerite.

The trenches dug in previous years were re-examined and tied in with hip-chain and compass in order to establish their positions relative to one another, and to the Zumar vein. For the most part they have filled with rubble over the years making re-examination difficult.

Occasional quartz fragments were noted in trenches to the north and northeast of the main Zumar exposure: these may represent the northeast striking quartz stringers noted taking off from the main vein, and in the east may reflect a change to a more northerly strike. More highly altered, northwest striking, "?lamprophyre?" dikes, (like the one that transects and offsets the main Zumar vein), were seen in some of the other trenches suggesting these may be a relatively common feature.

Examination of rock specimens from the Z-1 Grid area, (Fig. 5), show the southeast quadrant of Zumar 3 to be underlain mainly by Eocene volcanics intruded by Jurassic age granitic rocks.

The volcanics range from andesitic to basaltic in composition, are often somewhat granitized, with occasional "bullish" narrow quartz stringers. They are often vesicular, and amygdaloidal, and porphyritic in texture. They are commonly altered, carbonatized, occasionally epidotized, and usually quite soft.

The intrusive rocks are generally light coloured, medium to coarse grained granodioritic to dioritic rocks. They are sometimes altered, with rare xenoliths. Some quartz veining and pyritization is evident in the SE portion of the grid.

Examination of rock specimens from the Z-2 Grid, (Fig. 6), show the northern and northeastern portion of Zumar Gold to be underlain by a similar assemblage of Eocene volcanics and Jurassic intrusives. The volcanics here tend to be more amygdaloidal and porphyritic than those on Zumar 3, and more highly altered with occasional cherty and chalcedonic quartz lenses. The granitic rock occasionally has rose quartz, and can take on a banded appearance with alternating bands of deep salmon pink, and lighter pink to white bands.

The southeastern portion of Zumar Gold, (SE of Terrace Creek), is underlain by a mixed assemblage of Eocene volcanics, granitic intrusives, and Upper Triassic Nicola Group volcanics. The Eocene Group rocks here are commonly basalts, (with some andesites), often porphyritic and amygdaloidal, carbonatized and altered, and occasionally pyritized.

The Upper Triassic Nicola Group rocks are generally greenish-black, fine to very fine-grained, altered and carbonatized, occasionally tuffaceous, andesites and basalts. Some pyritization and quartz veining is evident. [Note: the distinction between the Eocene and Upper Triassic volcanics is not always clear.]

VII. GEOPHYSICS.

An attempt was made to see if the Self Potential method might be useful in defining mineralized zones on the property, thus outlining possible locations for trenching. This method measures the small voltages that exist between any two points on the earth's surface, and utilizes a portable voltmeter connected by wire to two clay pots filled with copper sulphate solution serving as electrodes. Anomalous negative voltages are sometimes found where sulphide minerals are oxidizing.

F. Critchlow Contracting spent 2 days on the property surveying a total of 1950m at 5 to 10m intervals. Several anomalous zones of negative voltages were identified, (Cf. Fig. 7), the two most significant being a zone to the NE of the existing trenching, and a zone lying to the SE of the Zumar vein.

The anomaly to the northeast of the trenching may reflect a faulted offset of the Zumar vein across a northwest trending fault, (the topography slopes off quickly here, dropping 10-12m in very short order - all trenching has been done on the high ground), or it may represent something entirely new. [Such a fault would fit the regional fabric of strong northwest trending linears such as Terrace Creek.]

The southeastern anomaly probably has an east-west strike passing to the south, (and downhill), of the existing trenching. This is an area of relatively disturbed material some of which has come from the trenches uphill, so this anomaly may not reflect in situ values. Less likely, it could reflect the dike cross-cutting the Zumar vein.

The SP work suggests a weakly mineralized zone may extend along the strike of the known vein as far as 7 or 8 + 00 E, (some quartz was found in this area). However, the SP results do not indicate mineralization to the west of the already known Zumar vein.

VIII. GEOCHEMISTRY.

Geochemical surveying was undertaken by Mr. P. Cox of Kelowna, (Innervision Developments Inc.), under the author's supervision. Mr. Cox spent a total of 21 days in the field, and hired an assistant for four days to aid in establishing control lines for his survey.

The new grids were established by extending Wilmot and Morrison's existing grid on the Zumar 2 & 4 Mineral Claims onto the subject areas, (not to be confused with Wood's Zumar 2,4 grid, which is a separate grid). Lines were spaced at 100m spacings, and samples of the "B" horizon were taken at 50m intervals along those lines. As in previous soil surveys the cover was found to consist mainly of glacial drift, with some residual soils in areas of light overburden.

A total of 569 samples was collected and shipped to Eco-Tech Laboratories Ltd. in Kamloops for storage and processing. Of these, 359 were subjected to multi-element analysis using standard 30 element plus gold assay procedures. (Dry and sieve to -80 mesh, Aqua Regia digestion for the ICP, and Fire Assay/AA for gold analysis.)

The original geochemical survey in 1986 produced a coincident copper and silver anomaly over the Zumar vein. Wood's 1988 survey concluded that anomalous copper coincided with a zone of calcium alteration in the southern portion of Zumar 4, (near Zumar Gold), and that high vanadium values are associated with the copper anomalies. Accordingly, seven elements, (copper, vanadium, calcium, potassium, zinc, gold, and silver) were chosen for plotting. (Cf. Sheets Cu1, V1, Ca1, K1, Zn1, Au1, Ag1, Cu2, V2, Ca2, K2, Zn2, Au2, Ag2)

On the Z-1 grid covering the southeast quadrant of Zumar 3 all of the plots show essentially background values. There being no encouragement here, the remaining samples were not processed.

On the Z-2 grid covering Zumar Gold there is a coincident copper-vanadium-calcite-potassium-zinc anomaly to the SW in the region of Lines 19 +00 E to 22 + 00E, 2 +00S to 8+00S, near the Zumar 4 claim, with the strongest copper-silver response in the 19 + 00E to 21+00E, 2 + 00S to 5 + 00S area. This tends to confirm Wood's conclusion that a NE striking zone of copper enrichment exists on the property. Gold response is negligible.

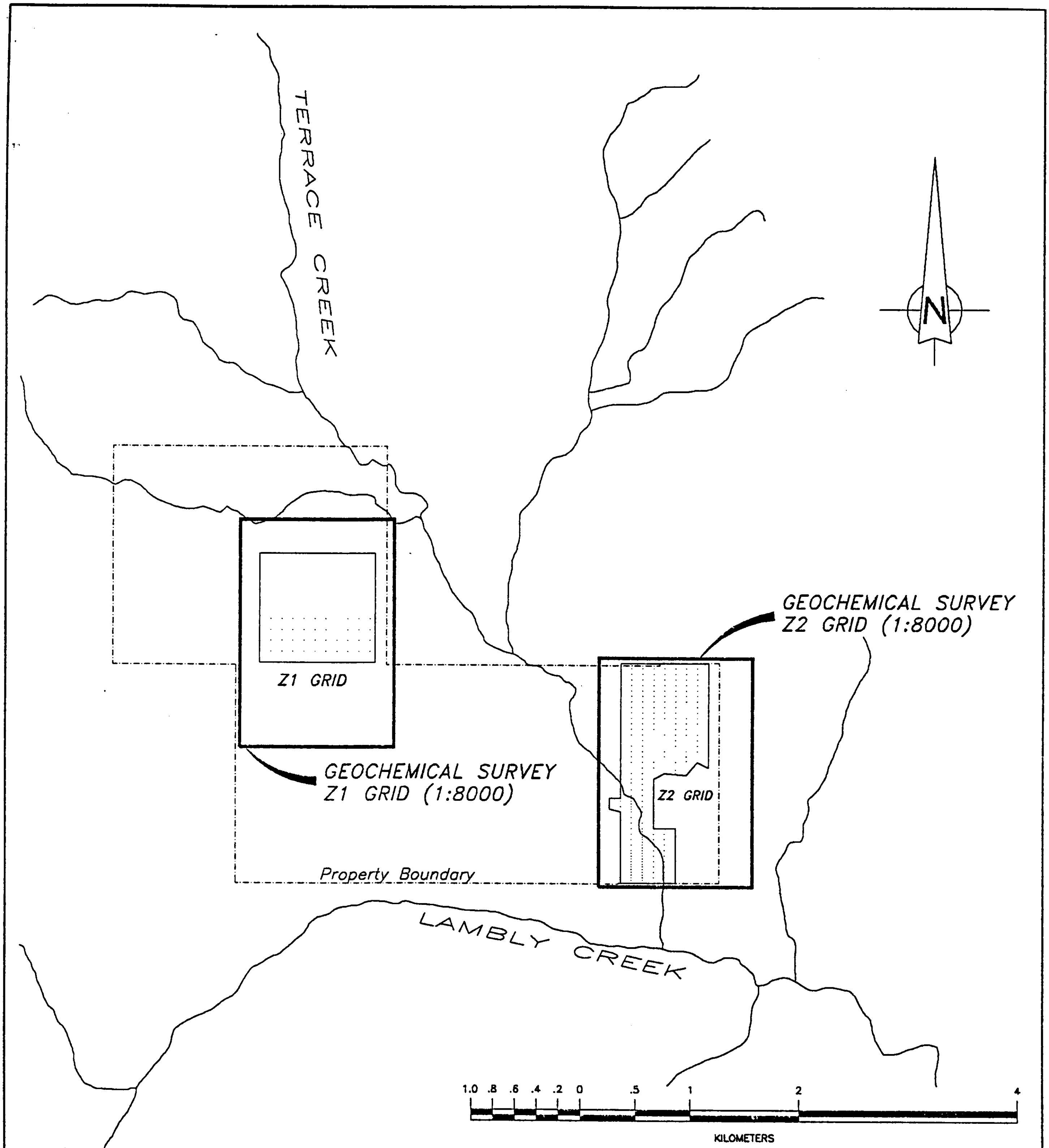
To the NE calcium, and to a lesser extent zinc gives a broad, low level anomaly. The intervening NW trending zone between these anomalous areas shows only background level responses.

Three observations are made:

1. The anomalous responses in calcium and zinc in the NE portion of Zumar Gold are in an area of rock outcropping and probably reflect thin soils and proximity to bedrock.

2. The area between the NE and SW anomalous areas occupies a NW trending zone of somewhat more extensive cover.

3. The anomalous responses to the SE occur in an area of mixed Eocene and Upper Triassic volcanics where both bedrock and the water table are close to surface. As Fig. 6 shows, there is a steep drop-off to the Terrace Creek in this vicinity.



AMARADO RESOURCES LTD.

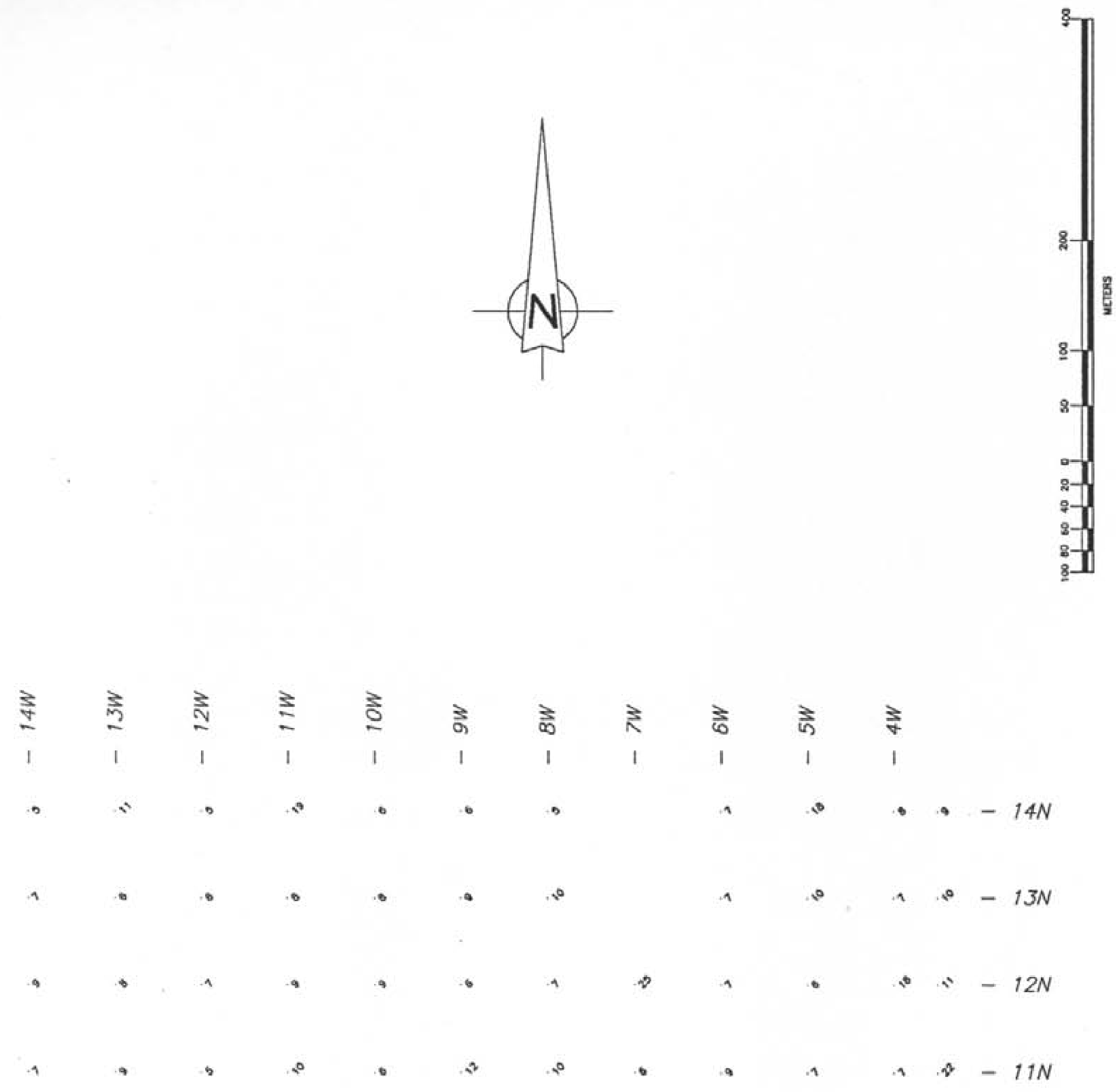
ZUMAR PROPERTY

INDEX MAP

JOHN MURRAY, B.Sc.

SCALE	NTS	UTME	UTMN	SHEET
1:50000	82L/4E			D1
DWN BY ASG/asg	DATE	REVISED		DWG jm1zm1im

FIG 4.



GEOCHEMICAL SURVEY, Z1 GRID

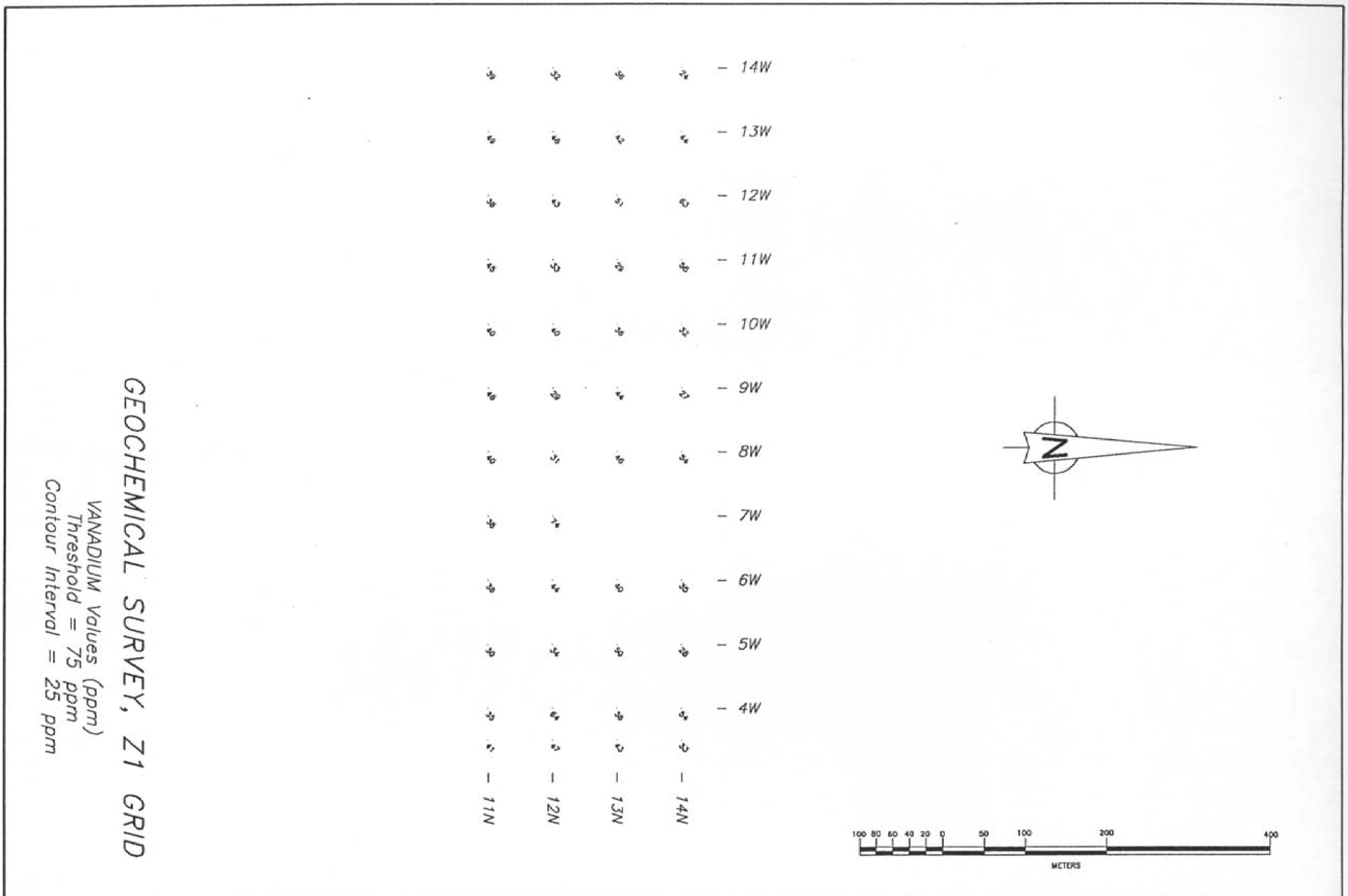
COPPER Values ppm
Threshold = 75 ppm
Contour Interval = 25 ppm

JOHN MURRAY, B.Sc.

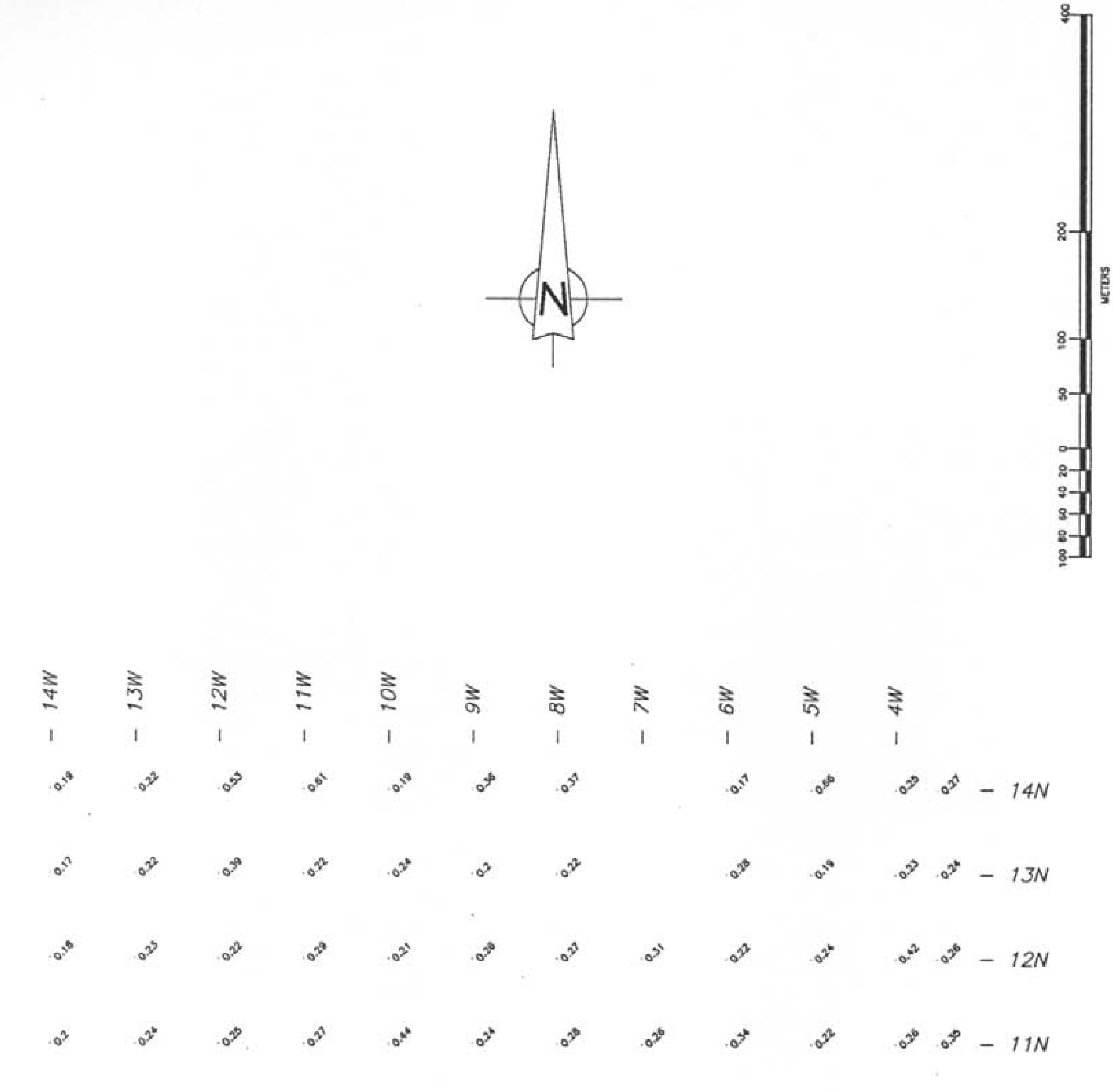
AMARADO RESOURCES LTD.

ZUMAR PROPERTY

SCALE 1:8000	NTS 82L/4E	UTME	UTMN	SHEET Cu1
DWN BY ASG/asg	DATE 1991-07-25	REVISED		DWG jm1zm1Cu



JOHN MURRAY, B.Sc.	AMARADO RESOURCES LTD.	SCALE 1:8000	NTS 82L/4E	UTME UTMN	SHEET V1
	ZUMAR PROPERTY	DWN BY ASG/asg	DATE 1991-07-25	REVISED	DWG jm1zm1V



GEOCHEMICAL SURVEY, Z1 GRID

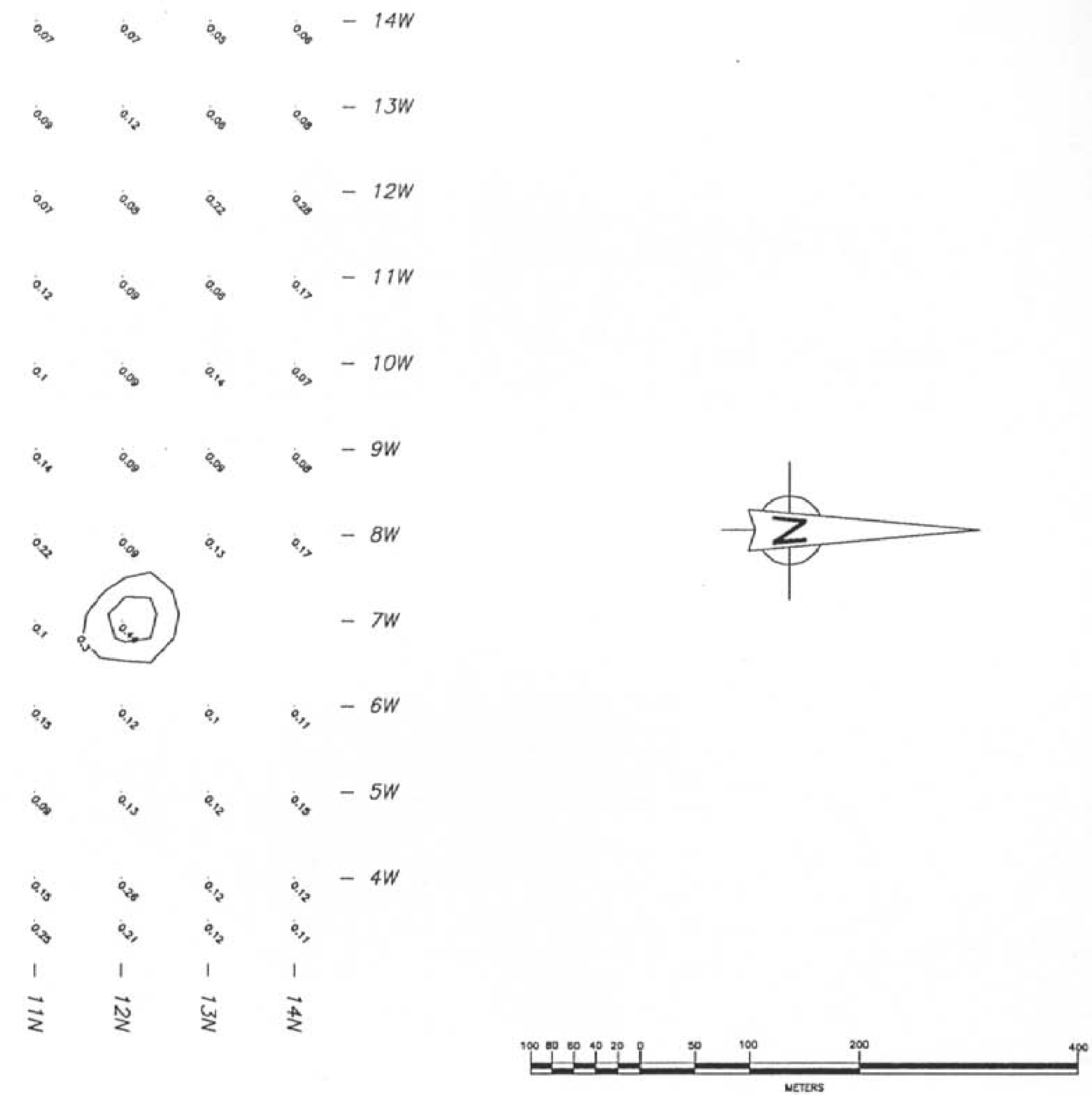
CALCITE Values (%)
Threshold = .75%
Contour Interval = .1%

JOHN MURRAY, B.Sc.

AMARADO RESOURCES LTD.

ZUMAR PROPERTY

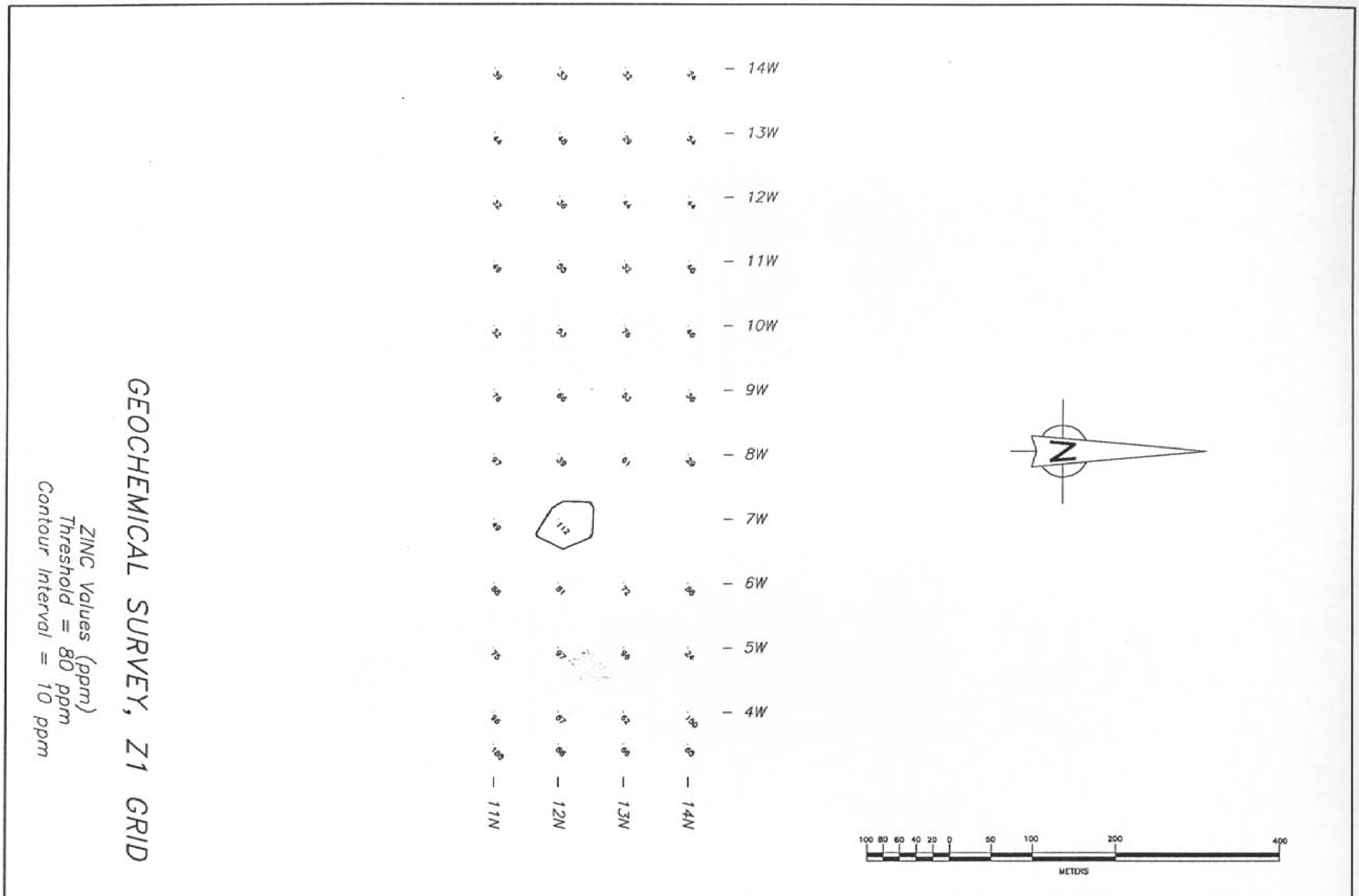
SCALE	NTS	UTME	UTMN	SHEET
1:8000	82L/4E			Ca1
DWN BY ASG/asg	DATE 1991-07-25	REVISED		DWG jm1zm1Ca



GEOCHEMICAL SURVEY, Z1 GRID

POTASSIUM Values (%)
Threshold = .3%
Contour Interval = .1

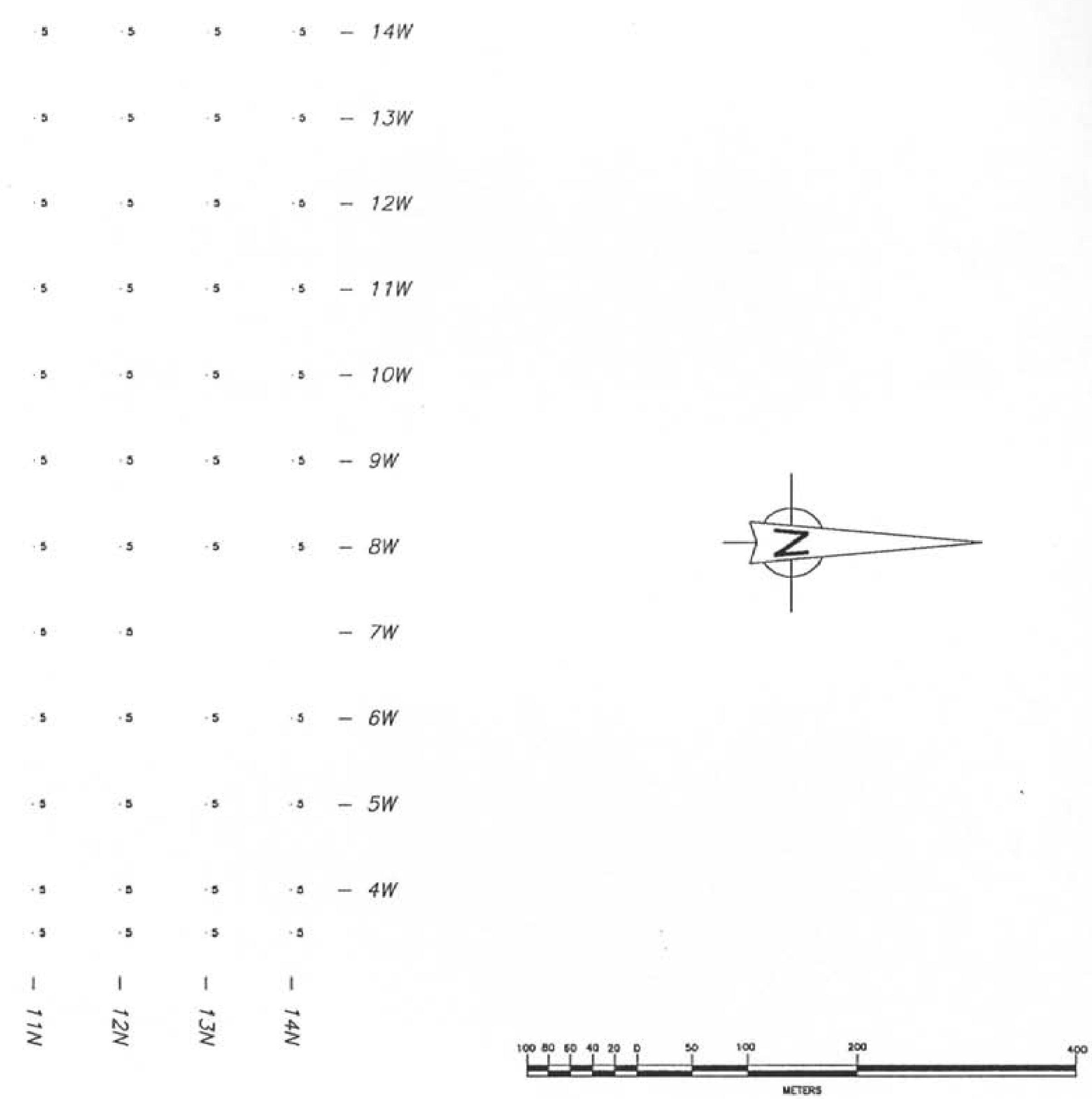
JOHN MURRAY, B.Sc.	AMARADO RESOURCES LTD.	SCALE 1:8000	NTS 82L/4E	UTME UTMN	SHEET K1
	ZUMAR PROPERTY	DWN BY ASG/asg	DATE 1991-07-25	REVISED	DWG jm1zm1K



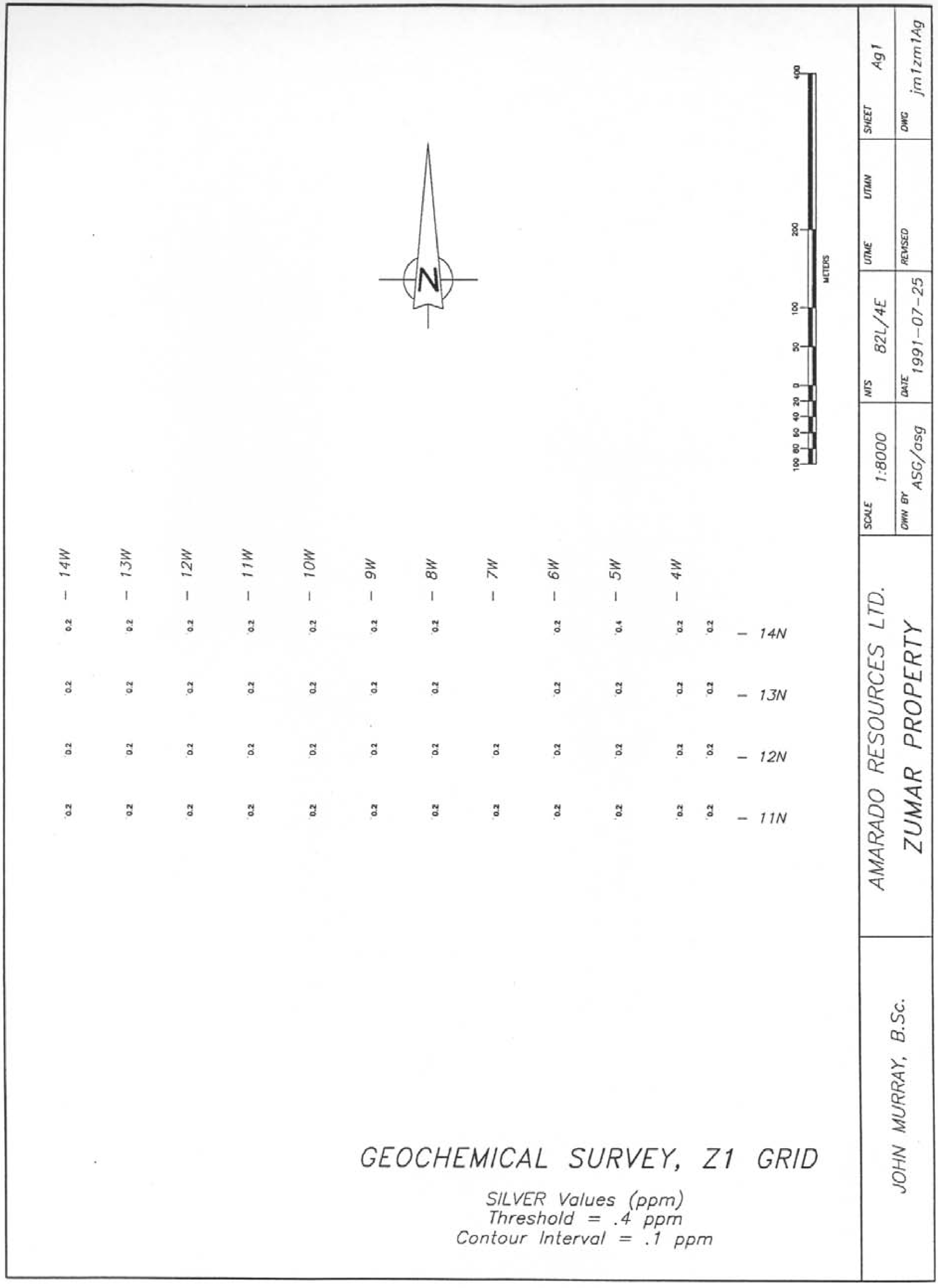
JOHN MURRAY, B.Sc.	AMARADO RESOURCES LTD.	SCALE 1:8000	NTS 82L/4E	UTME UTMN	SHEET Zn1
	ZUMAR PROPERTY	DWN BY ASG/asg	DATE 1991-07-25	REVISED	DWG jm1zm1Zn

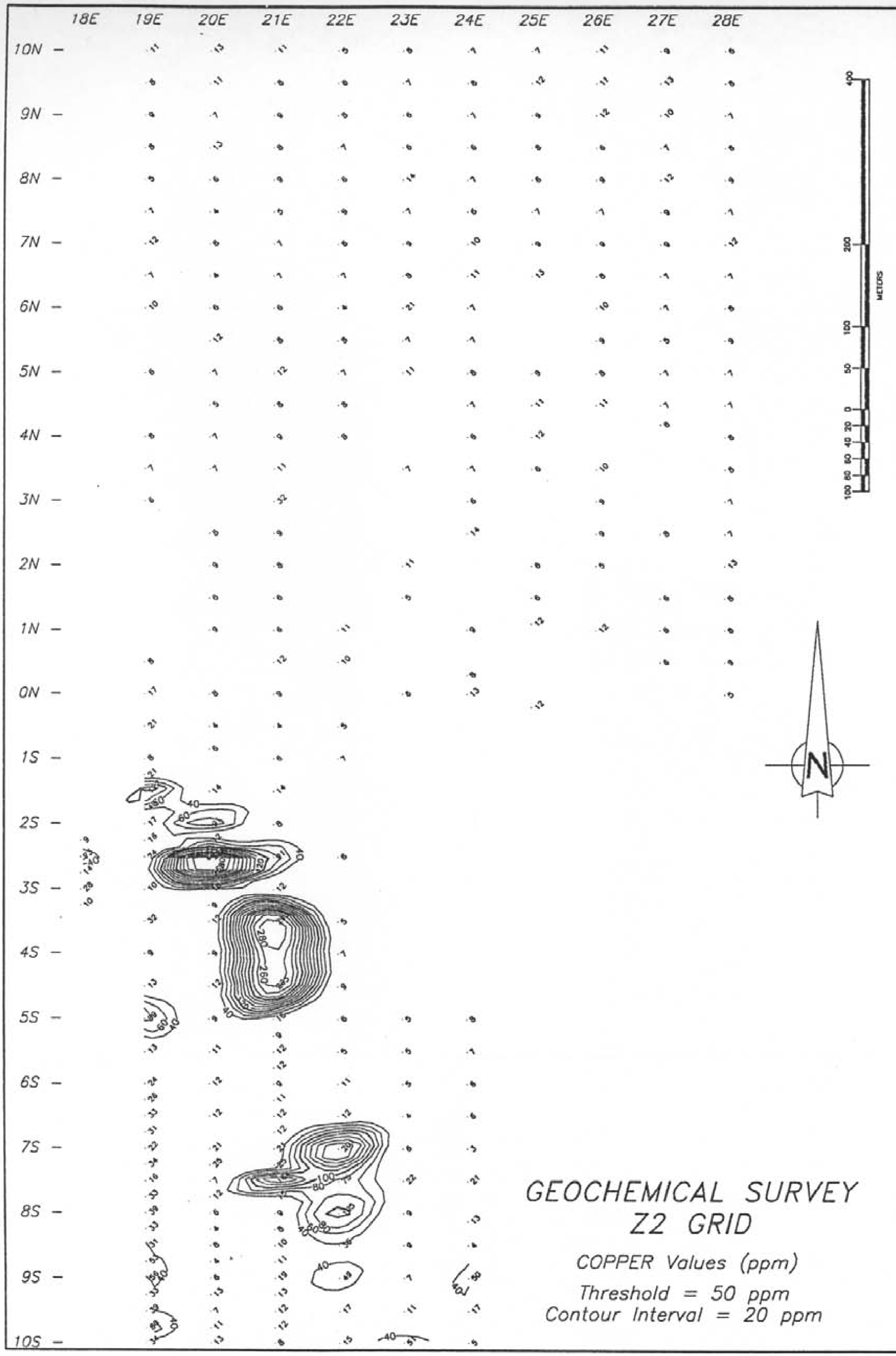
GEOCHEMICAL SURVEY, Z1 GRID

GOLD Values (ppb)
Threshold = 25 ppb
Contour Interval = 10 ppb



JOHN MURRAY, B.Sc.	AMARADO RESOURCES LTD.	SCALE 1:8000	NTS 82L/4E	UTME UTMN	SHEET Au1
	ZUMAR PROPERTY	DWN BY ASG/asg	DATE 1991-07-25	REVISED	DWG jm1zm1Au


GEOCHEMICAL SURVEY, Z1 GRID
SILVER Values (ppm)
Threshold = .4 ppm
Contour Interval = .1 ppm
N
METERS
100 80 60 40 20 0 50 100 200 400
14W
13W
12W
11W
10W
9W
8W
7W
6W
5W
4W
14N
13N
12N
11N
0.2
0.4
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
JOHN MURRAY, B.Sc.
SCALE 1:8000
NTS 82L/4E
UTME
UTMN
SHEET Ag1
DWN BY ASG/asg
DATE 1991-07-25
REVISED
DWG jm1zm1Ag

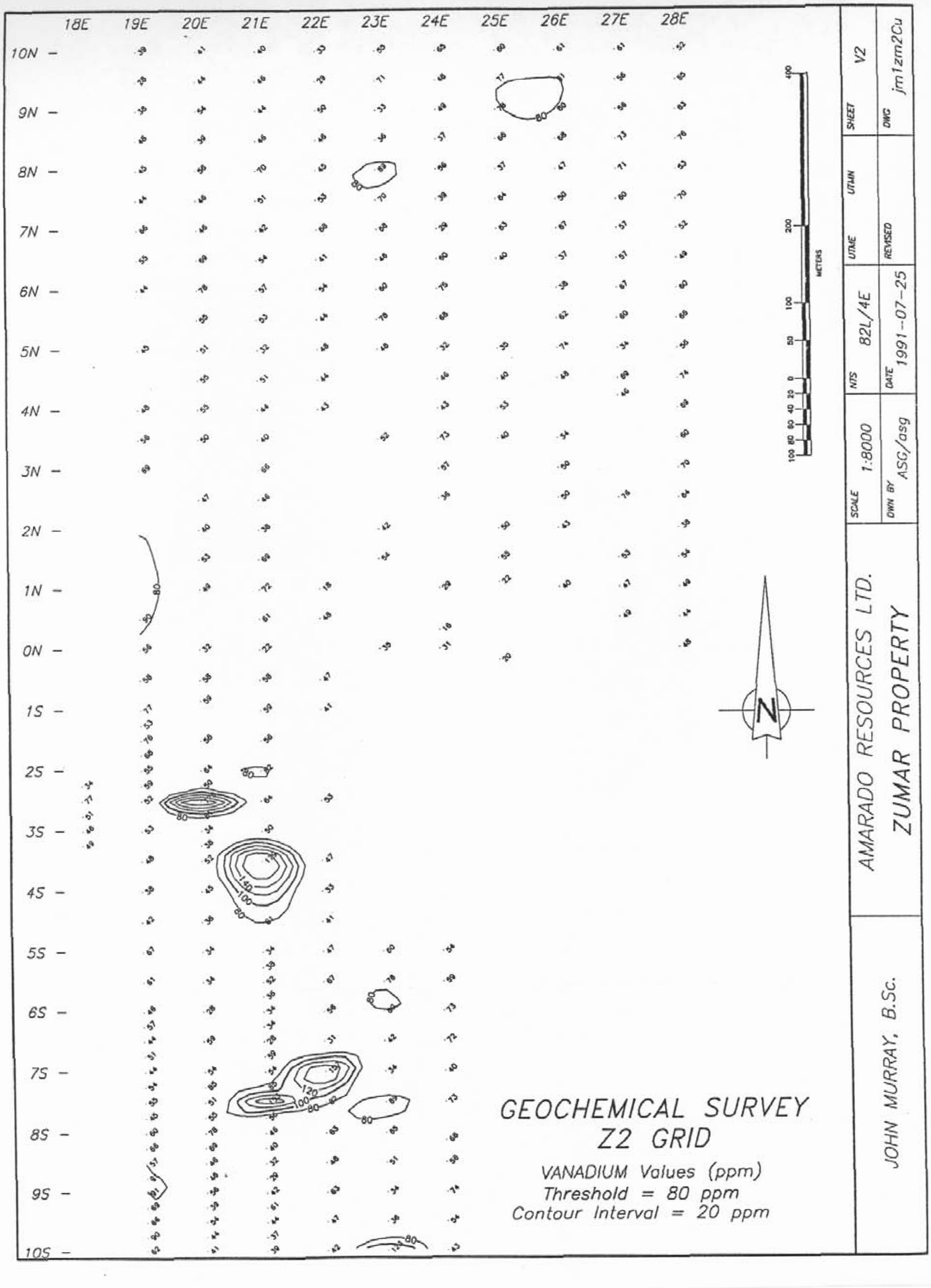


AMARADO RESOURCES LTD.

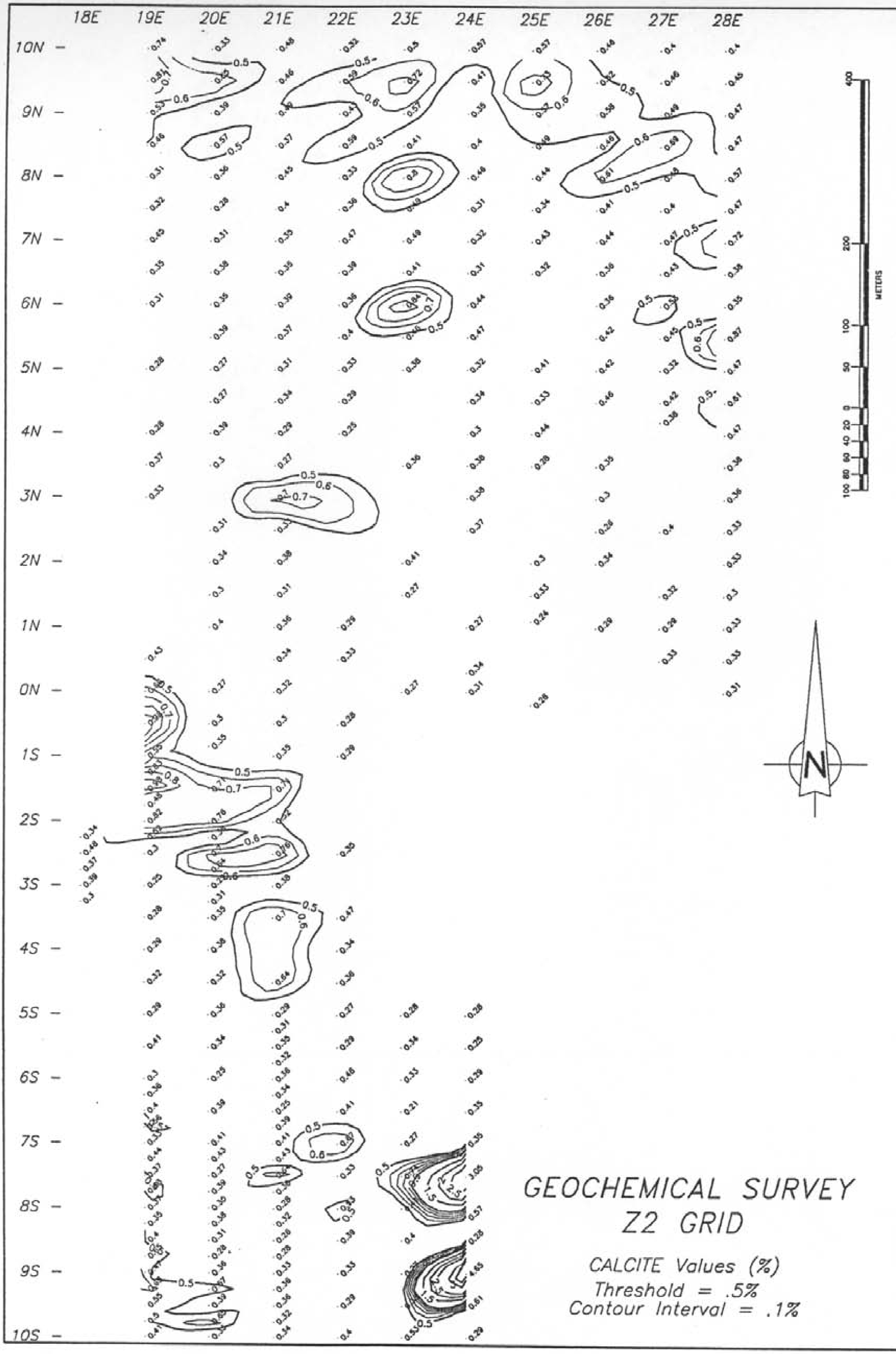
ZUMAR PROPERTY

JOHN MURRAY, B.Sc.

SCALE	NTS	UTME	UTMN	SHEET
1:8000	82L/4E			Cu2
DWN BY ASG/asg	DATE 1991-07-25	REVISED		DWG jm1zm2Cu



18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0N
1S
2S
3S
4S
5S
6S
7S
8S
9S
10S
METERS
N
GEOCHEMICAL SURVEY
Z2 GRID
VANADIUM Values (ppm)
Threshold = 80 ppm
Contour Interval = 20 ppm
JOHN MURRAY, B.Sc.
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
SCALE 1:8000
DWN BY ASG/asg
NTS 82L/4E
DATE 1991-07-25
UTME
REVISED
UTMN
SHEET V2
DWG jm1zm2Cu

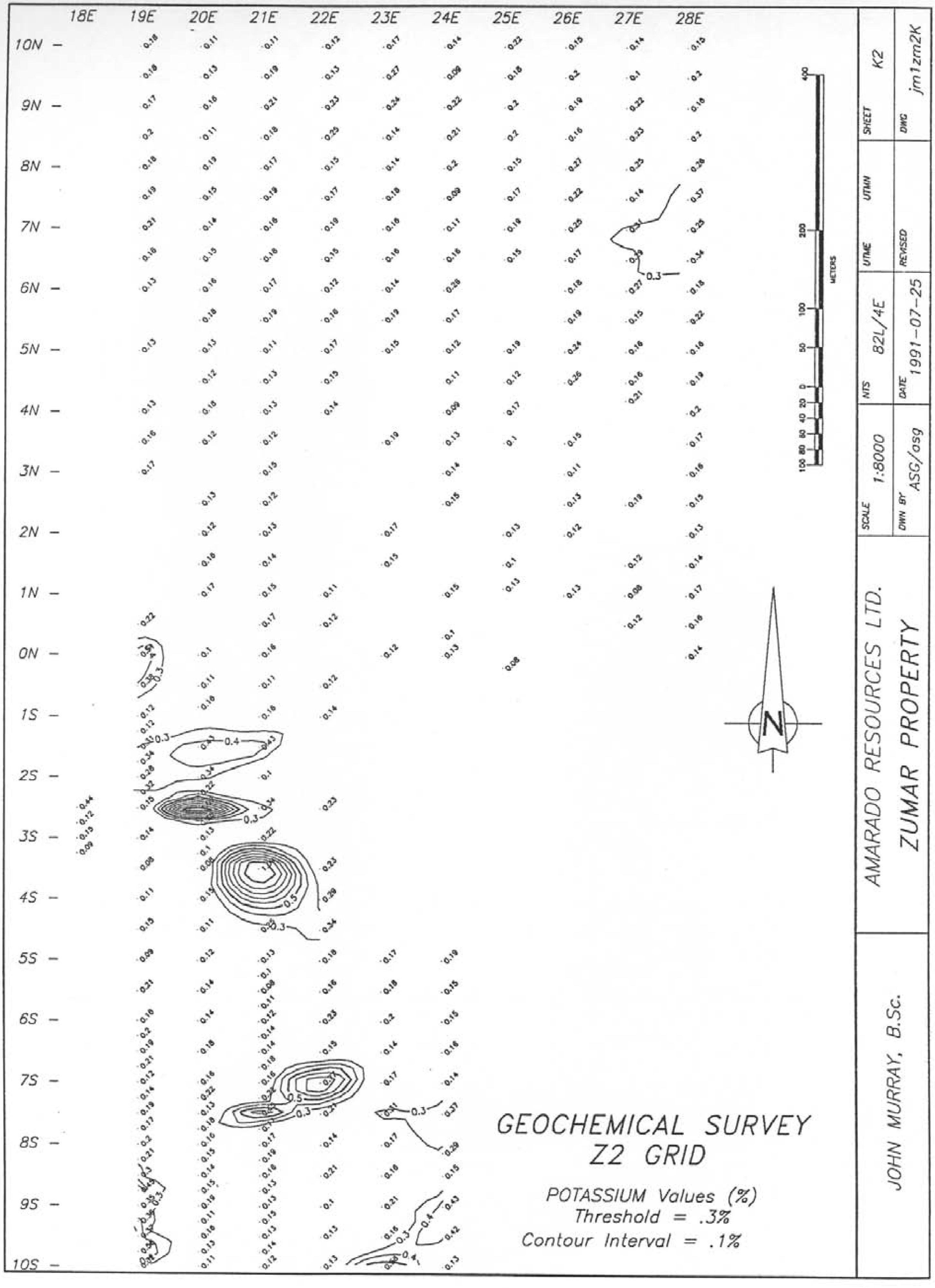


JOHN MURRAY, B.Sc.

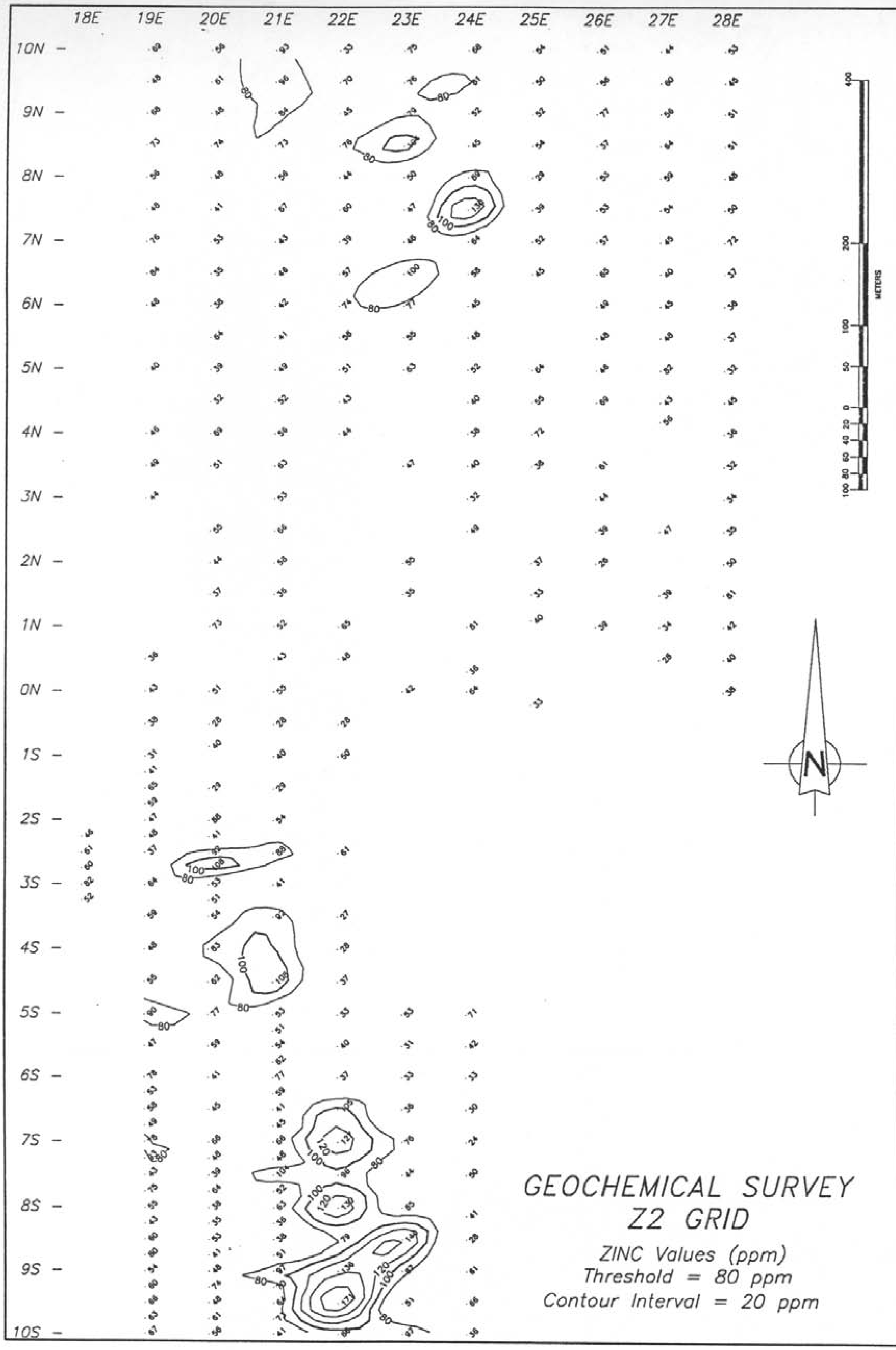
AMARADO RESOURCES LTD.

ZUMAR PROPERTY

SCALE	NTS	UTME	UTMN	SHEET
1:8000	82L/4E			Ca2
DWN BY ASG/asg	DATE 1991-07-25	REVISED		DWG jm1zm2Ca



18E
19E
20E
21E
22E
23E
24E
25E
26E
27E
28E
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0N
1S
2S
3S
4S
5S
6S
7S
8S
9S
10S
METERS
N
GEOCHEMICAL SURVEY
Z2 GRID
POTASSIUM Values (%)
Threshold = .3%
Contour Interval = .1%
JOHN MURRAY, B.Sc.
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
SCALE 1:8000
DWN BY ASG/asg
NTS 82L/4E
DATE 1991-07-25
UTME
REVISED
UTMN
SHEET K2
DWG jm1zm2K

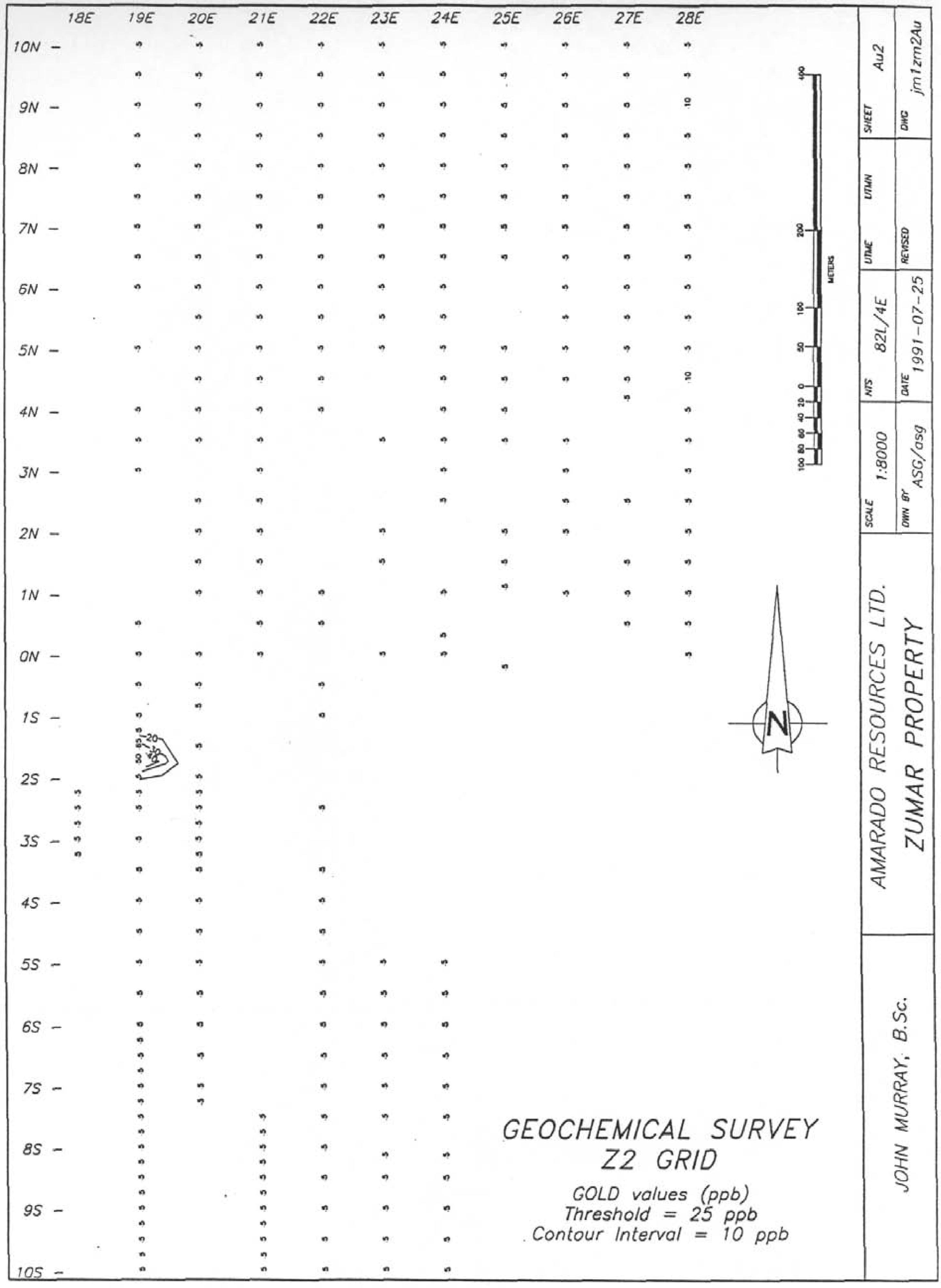


JOHN MURRAY, B.Sc.

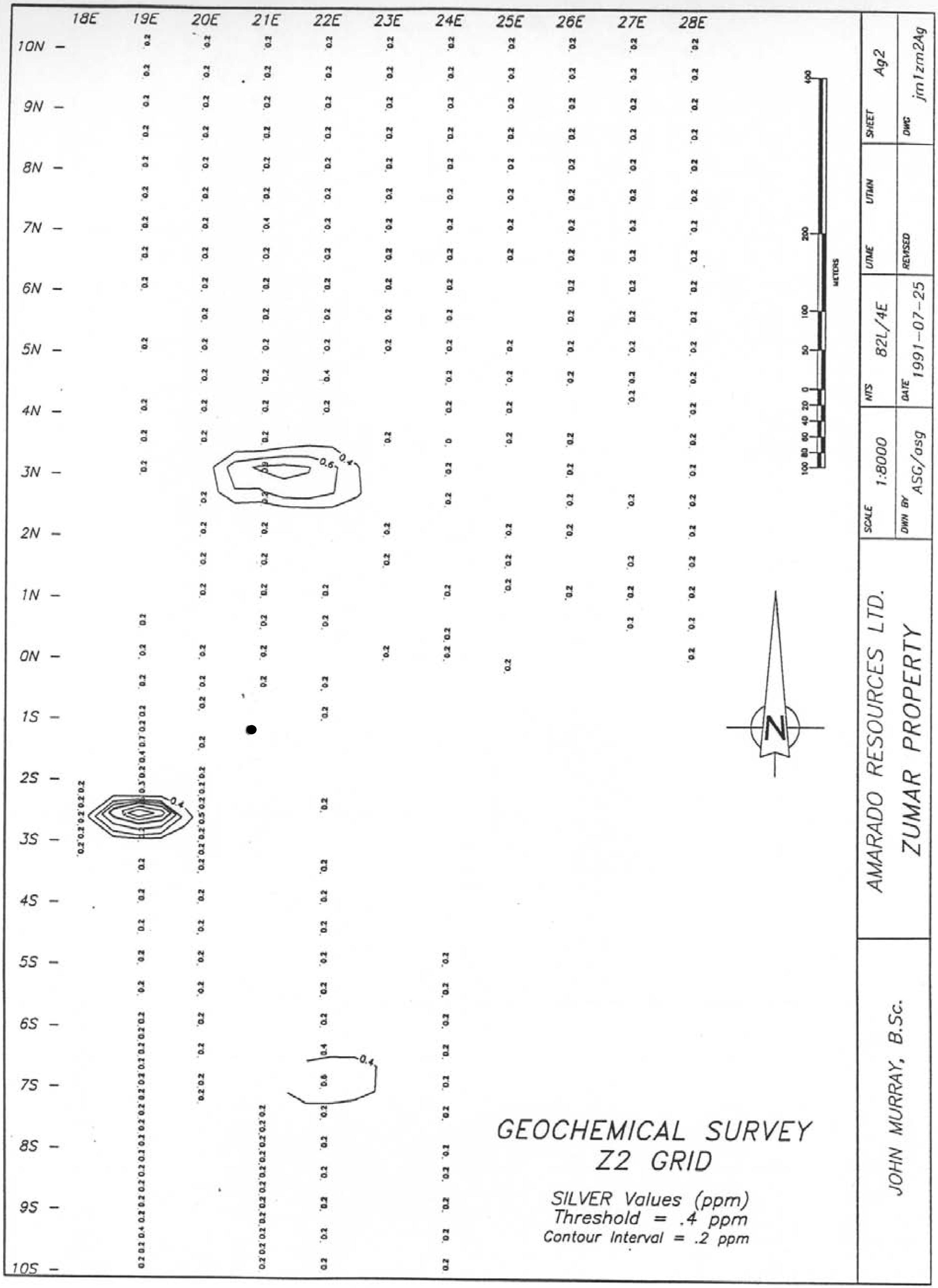
AMARADO RESOURCES LTD.

ZUMAR PROPERTY

SCALE 1:8000	NTS 82L/4E	UTME	UTMN	SHEET Zn2
DWN BY ASG/asg	DATE 1991-07-25	REVISED		DWG jm1zm22Zn



18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0N
1S
2S
3S
4S
5S
6S
7S
8S
9S
10S
METERS
N
GEOCHEMICAL SURVEY
Z2 GRID
GOLD values (ppb)
Threshold = 25 ppb
Contour Interval = 10 ppb
JOHN MURRAY, B.Sc.
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
SCALE 1:8000
DWN BY ASG/asg
NTS 82L/4E
DATE 1991-07-25
UTME
REVISED
UTMN
SHEET Au2
DWG jm1zm2Au



18E 19E 20E 21E 22E 23E 24E 25E 26E 27E 28E
10N
9N
8N
7N
6N
5N
4N
3N
2N
1N
0N
1S
2S
3S
4S
5S
6S
7S
8S
9S
10S
0.4
0.6
N
METERS
GEOCHEMICAL SURVEY
Z2 GRID
SILVER Values (ppm)
Threshold = .4 ppm
Contour Interval = .2 ppm
JOHN MURRAY, B.Sc.
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
SCALE 1:8000
DWN BY ASG/asg
NTS 82L/4E
DATE 1991-07-25
UTME
REVISED
UTMN
SHEET Ag2
DWG jm1zm2Ag

IX. CONCLUSIONS.

The results from the Z-1 Grid covering the SE quadrant of the Zumar 3 claim returned only background values.

The results from the Z-2 Grid covering the Zumar Gold claim show anomalous values both in the northern, and in the southeastern portions of the claim. The northern anomaly is very likely a reflection of thin soil cover, with values representing bedrock, while the southern anomaly may reflect proximity of bedrock and water tables. It does occur in an area of mixed geology with Nicola Group, Eocene, and Jurassic age rocks, which may warrant investigation.

The Self Potential method of geophysical surveying does appear to be a useful tool for exploration on this property, having turned up several good anomalies. Proof of the method's utility will lie in the results of trenching one of the anomalies. The best target for such a test would be the strong anomaly occurring to the northeast of the existing trenching. Such trenching could also test the thesis that a strong northwest trending fault might exist here. [It is likely that this method will be less effective in areas of deep overburden.]

The Zumar vein is a very narrow mesothermal quartz vein hosted by indurated volcanics. It seems to be cut off to the west, (although a fault occupying the northeast trending topographic low immediately west of the vein could conceivably offset the vein.) It also looks weak going to the east, with little geological expression and limited SP results. (The northeast SP anomaly could be the eastern expression of the Zumar vein as pointed out above.)

Close examination of the Zumar vein raises a question of whether the earlier diamond drilling went far enough to intersect the Zumar vein proper: it is clear that those holes did intersect quartz veining, but these may have been subsidiary features. The drilling assumed an 80° south dip for the vein, but it may, in fact, vary around the vertical.

At the White Elephant and Bluehawk properties minor production of gold and silver was achieved from silicified zones in propylitized mid-Jurassic intrusives not far from Eocene volcanics. Mineralization in mesothermal quartz veins in granitic rocks is found at the Brett deposit as well. Mineralized quartz veins within the intrusive rocks are a proven target in this geologic environment.

Diamond drilling to date has not intersected the Zumar vein within the granitic rocks, yet it seems likely that at this property, as at the Bluehawk, Brett, and White Elephant properties, the mineralized quartz veining transects the underlying granitic intrusion.

Experience in the other camps shows that auriferous quartz veins in granitic intrusives have their most productive ore shoots at, or adjacent to, the intrusive contacts, and sometimes within the intrusive.

The 1986 drill hole suggests that significant values persist at depth, (albeit over narrow widths), in the Zumar vein. A case can be made for further diamond drilling aimed at exploring the vein within the underlying granitic intrusive, especially near it's contacts with the surrounding hybridized, propylitized, and pyritized volcanics. The pyritic halo and propylitization suggest the contact is nearby, as does the well indurated and hornfelsed character of the host rocks of the Zumar vein.

X. RECOMMENDATIONS.

The anomalous area in the southwestern portion of Zumar Gold should be investigated in the field, but no further work is warranted in the northern part of Zumar Gold, or in the SE quadrant of Zumar 3. The remainder of the Zumar 3 could be prospected to check for any indication that further work is justified.

If further work is done on the Zumar prospect itself the SP anomaly to the northeast of the existing trenching could be trenched.

However, the narrow widths and scattered values to date suggest that the economics of any mesothermal vein targets will be suspect.

A review of work and literature on other properties in the area may reveal other types of targets: the region does have an interesting mix of geology, and mineralization, (pyrite), seems widespread.

XI. REFERENCES.

Buchanan L.J.,1981; "Precious Metals Associated with Volcanic Environments in the Southwest" in Relations of tectonics to Ore Deposits in the South Cordillera, Arizona Geological Society Digest Vol XIV, pp 237-261.

Cominco Smelter Sheets, (accomp.)

Daughtry, K.L., 1984; "Geochemistry and Prospecting, Gold Star, Whiteman Creek"; A.R. 12854.

Drysdale, C.W., 1917; GSC Mem. 94, "Ymir Mining Camp".

Gruenwald, W., (B.Sc.), 1984; "Geology and geochemistry of the Brett Property"; A.R. 13469.

Gruenwald, W., (B.Sc.), 1985; "Geology and Geochemistry of Brett Property"; A.R. 13471.

Gruenwald, W., (B.Sc.), 1988; "Report on the Brett Property" by Geoquest Consulting for Huntington Resources.

Jones A.G., 1959; GSC Mem. 296: "Vernon Map Area"

Lafreniere T.H., (C.E.T.), and Brown P., (P. Eng.), 1980; "Preliminary Flotation Study, Zumar Resources Ore"; Kamloops Research and Assay Laboratory Ltd.

Meyers, R. E., 1988; "South-Central District", B.C. Mineral Exploration Review, 1987; MEMPR 1988-1

Meyers, R.E., District Geologist, Kamloops, personal communication.

Meyers, R. E., and Taylor, W.A., 1989; "Metallogenic studies of Lode Gold-Silver Occurences in South-Central British Columbia: a Progress Report"; Geological Fieldwork 1988, MEMPR Paper 1989-1.

Meyers, R. E., and Taylor, W.A., 1989; "Lode Gold-silver Occurences of the Okanagan Region", MEMPR O.F. 1989-5.

Morrison, M.S., (B.SC.), 1986; "Report on an Examination of the Zumar 2 & 4 M.Cs."

Murray, J., (B. Sc.), 1990; " Property Examination Report, Zumar Property.

National Geochemical Reconnaissance, 6-1976.

Parrish R.R., Carr S.D., Parkinson D.,1988; "Eocene Extensional Tectonics and Geochronology of the southern Omineca Belt, B.C. and Washington", Tectonics, Vol 7, pp 181-212.

Templeman-Kluit and Parkinson, 1986; "Extension Across the Eocene Okanagan Crustal Shear in southern British Columbia", Geology, v14, pp318-321

Wilmot A.D., (P.Eng.), 1979; "Zumar 2 Mining Claim".

Wilmot A.D., (P.Eng.), 1982; "Report on the Zumar M.C. Diamond Drilling".

Wilmot A.D., (P.Eng.), 1986; "Magnetometer and Geochemical Report on Zumar 2 & 4 M.Cs."

Wilmot A.D., (P.Eng.), 1986; "Progress Report on the Zumar Mining Claims, Vernon Mining Division".

Wilmot A.D., (P.Eng.), 1987; "Geochemical Survey on Tara Mineral Claims".

Wood D.H., (B.Sc.,FGAC), 1989; "Geochemical and Geophysical report on the Zumar Property".

Woodcock, J.R., 1979; "Geology, Geochemistry and Geophysics of Whiteman 1, 2, 3 Claims"; A.R. 7397.

Yeager & Ikona, 1987; "Report on Expo 1-10, 14-17, and 22 Mineral Claims".

STATEMENT OF QUALIFICATIONS.

J. MURRAY,

519 W. Innes,
Nelson, B.C.,
V1L 3J2.

1. I am a graduate Mining Technician of Haileybury School of Mines.
2. I am a graduate B.Sc.(Geology), University of Manitoba, 1974.
3. I practice as a geologist at the above address.
4. I have practiced as a geologist continuously since 1974, having worked in Manitoba, Saskatchewan, Ontario, and British Columbia for a number of large and small companies, including INCO Metals and LAC Minerals.
5. I have based this report on a review of all available reports by previous workers, and my participation in, and supervision of, the 1990 exploration programme.
6. I have no interests in any of the properties described, nor in any within 10 kilometres of the property.
7. My sole remuneration is the professional fee charged for this report.
8. I have not, (nor do I expect to have), any interest in the company.
9. I hereby consent to the use of this report, in its entirety, by Amarado Resources Ltd. in a prospectus, SMF, or Qualifying Report. Written permission must be obtained before release of any quotation or summary.

J. Murray.
date: July 28th, 1991.

STATEMENT OF EXPENSES

1.	Pre - Field Preparation	$ 450.00
2.	Gridding/Sampling	5398.60
3.	Assaying	4513.53
4.	Data Processing	836.00
5.	Geophysics	1000.00
6.	Geologist	4500.00
7.	Accomodation & Board	1032.03
8.	Vehicle	1052.35
9.	Report	2500.00
10.	Other Expenses	485.26
11.	Administration/Overhead	1097.37
	TOTAL EXPENSES	$22,865.14

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

JOHN MURRAY - ETK 91-387

519 W. INNES
NELSON, B.C.
V1L 3J2

JULY 17, 1991

VALUES IN PPM UNLESS OTHERWISE REPORTED

359 SOIL SAMPLES RECEIVED AUTHORIZATION JUNE 21, 1991

ET#	DESCRIPTION		AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
1	- 3+ 50W	11 N	<5	<.2	2.72	<5	8	180	<5	.35	<1	12	22	22	2.53	.25	10	.47	321	<1	.01	19	1670	42	<5	<20	24	.13	<10	41	<10	5	185
2	- 3+ 50W	12 N	<5	<.2	2.30	<5	6	135	<5	.26	<1	11	37	11	2.73	.21	10	.50	241	<1	.01	17	540	20	<5	<20	20	.13	<10	47	<10	5	86
3	- 3+ 50W	13 N	<5	<.2	2.75	<5	8	140	<5	.24	<1	11	22	10	2.44	.12	20	.36	304	<1	.02	13	1320	20	<5	<20	19	.14	<10	43	<10	7	66
4	- 3+ 50W	14 N	<5	<.2	2.51	<5	8	200	<5	.27	<1	10	23	9	2.11	.11	<10	.35	318	<1	.02	18	1650	18	<5	<20	28	.12	<10	33	<10	4	65
5	- 4 W	11 N	<5	<.2	2.14	<5	8	190	<5	.26	<1	10	17	7	2.09	.15	<10	.31	473	<1	.02	16	1250	14	<5	<20	17	.11	<10	35	<10	4	96
6	- 4 W	12 N	<5	<.2	2.75	<5	8	230	<5	.42	<1	15	24	18	2.95	.26	10	.76	629	<1	<0.01	14	2170	16	5	<20	23	.15	<10	64	<10	5	87
7	- 4 W	13 N	<5	<.2	3.09	<5	8	135	<5	.23	<1	10	20	7	2.35	.12	10	.35	330	<1	.02	13	2080	22	<5	<20	17	.14	<10	38	<10	5	62
8	- 4 W	14 N	<5	<.2	1.99	15	6	170	<5	.25	<1	14	14	8	3.06	.12	<10	.47	900	<1	.02	7	1920	14	<5	<20	16	.16	<10	54	<10	4	150
9	- 5 W	11 N	<5	<.2	2.34	<5	8	95	<5	.22	<1	9	13	7	1.92	.09	10	.24	360	<1	.02	11	2150	16	<5	<20	19	.11	<10	30	<10	6	75
10	- 5 W	12 N	<5	<.2	1.53	<5	8	145	<5	.24	<1	9	17	6	1.79	.13	<10	.29	406	<1	.02	11	1050	12	<5	<20	16	.10	<10	34	<10	3	97
11	- 5 W	13 N	<5	<.2	2.39	<5	8	105	<5	.19	<1	12	20	10	2.79	.12	10	.42	627	<1	.01	13	1360	16	<5	<20	14	.13	<10	50	<10	5	96
12	- 5 W	14 N	<5	.4	3.92	<5	6	155	<5	.66	<1	9	36	18	3.02	.15	50	.47	143	<1	.02	18	280	24	<5	<20	40	.13	<10	28	<10	22	24
13	- 6 W	11 N	<5	<.2	2.26	<5	6	165	<5	.34	<1	10	21	9	2.16	.15	10	.37	679	<1	.02	15	1330	16	<5	<20	23	.12	<10	38	<10	6	88
14	- 6 W	12 N	<5	<.2	2.22	<5	6	145	<5	.22	<1	10	21	7	2.48	.12	10	.37	536	<1	.01	13	1130	16	<5	<20	20	.10	<10	44	<10	4	81
15	- 6 W	13 N	<5	<.2	1.42	<5	8	150	<5	.20	<1	9	18	7	2.05	.10	10	.25	908	<1	.01	9	1780	10	<5	<20	23	.09	<10	40	<10	4	72
16	- 6 W	14 N	<5	<.2	2.39	<5	6	170	<5	.17	<1	9	14	7	2.07	.11	10	.20	645	<1	.02	10	1720	16	<5	<20	16	.12	<10	35	<10	5	86
17	- 7 W	11 N	<5	<.2	1.43	<5	6	120	<5	.26	<1	8	16	6	2.01	.10	10	.25	441	<1	.01	10	980	10	<5	<20	16	.09	<10	38	<10	4	49
18	- 7 W	12 N	<5	<.2	3.18	<5	6	305	<5	.31	<1	18	22	25	3.63	.44	10	.94	955	<1	<0.01	17	910	18	5	<20	18	.20	<10	74	<10	7	112
19	- 8 W	11 N	<5	<.2	2.61	<5	8	200	<5	.20	<1	12	27	10	2.43	.22	10	.47	505	<1	.02	19	820	18	<5	<20	22	.14	<10	40	<10	7	97
20	- 8 W	12 N	<5	<.2	1.95	<5	8	110	<5	.27	<1	8	14	7	1.76	.09	10	.23	305	<1	.02	10	920	14	<5	<20	23	.10	<10	31	<10	5	39
21	- 8 W	13 N	<5	.2	2.16	<5	6	120	<5	.22	<1	12	32	10	2.38	.13	10	.47	429	<1	.01	17	760	14	<5	<20	20	.12	<10	46	<10	5	61
22	- 8 W	14 N	<5	<.2	.98	10	6	70	<5	.37	<1	9	23	5	2.41	.17	20	.39	287	<1	.02	9	580	8	<5	<20	25	.10	<10	54	<10	5	29
23	- 9 W	11 N	<5	.2	3.05	<5	8	150	<5	.24	<1	12	21	12	2.65	.14	20	.52	540	<1	.01	13	1250	20	<5	<20	18	.14	<10	46	<10	8	76
24	- 9 W	12 N	<5	<.2	1.68	<5	8	105	<5	.26	<1	8	16	6	1.70	.09	<10	.25	440	<1	.01	10	1400	12	<5	<20	19	.09	<10	29	<10	3	66
25	- 9 W	13 N	<5	.2	2.91	<5	6	130	<5	.20	<1	11	20	9	2.42	.09	10	.37	670	<1	.01	11	1190	20	<5	<20	16	.13	<10	44	<10	7	53
26	- 9 W	14 N	<5	<.2	2.73	<5	6	120	<5	.36	<1	7	21	6	2.17	.08	10	.36	120	<1	.02	8	280	20	5	<20	43	.12	<10	27	<10	5	36

ECO-TECH LABORATORIES LTD. JOHN MURRAY - ETK 91-387

ET#	DESCRIPTION		AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
27 -	10 W	11 N	<5	<.2	1.83	<5	6	85	<5	.44	<1	10	19	6	2.19	.10	<10	.29	124	<1	.01	12	200	14	<5	<20	35	.10	<10	40	<10	4	32
28 -	10 W	12 N	<5	<.2	2.44	<5	6	110	<5	.21	<1	10	18	9	2.26	.09	10	.33	282	<1	.02	11	1620	16	<5	<20	19	.11	<10	40	<10	5	53
29 -	10 W	13 N	<5	<.2	2.60	<5	6	145	<5	.24	<1	10	16	8	2.30	.14	10	.37	549	<1	.02	7	1760	20	<5	<20	26	.07	<10	36	<10	4	76
30 -	10 W	14 N	<5	<.2	1.96	<5	6	105	<5	.19	<1	9	15	6	1.83	.07	<10	.22	586	<1	.01	9	1490	16	<5	<20	18	.10	<10	32	<10	4	46
31 -	11 W	11 N	<5	<.2	2.29	<5	8	150	<5	.27	<1	12	37	10	2.26	.12	10	.49	394	<1	.02	18	1080	16	<5	<20	28	.14	<10	45	<10	6	49
32 -	11 W	12 N	<5	<.2	2.12	<5	8	130	<5	.29	<1	8	15	9	1.94	.09	10	.26	510	<1	.02	10	2130	16	<5	<20	26	.10	<10	33	<10	5	55
33 -	11 W	13 N	<5	<.2	2.68	<5	6	105	<5	.22	<1	9	13	8	1.81	.06	<10	.21	239	<1	.02	11	1040	20	<5	<20	25	.12	<10	29	<10	8	32
34 -	11 W	14 N	<5	<.2	3.20	<5	6	195	<5	.61	<1	16	28	19	3.29	.17	40	.48	708	<1	.02	21	350	20	<5	<20	54	.15	<10	56	<10	19	46
35 -	12 W	11 N	<5	<.2	1.73	<5	8	95	<5	.25	<1	8	16	5	2.03	.07	10	.20	352	<1	.01	10	1070	12	<5	<20	17	.09	<10	38	<10	4	32
36 -	12 W	12 N	<5	<.2	1.95	<5	8	90	<5	.22	<1	9	17	7	2.28	.08	10	.26	371	<1	.01	9	1120	14	<5	<20	15	.10	<10	43	<10	5	36
37 -	12 W	13 N	<5	<.2	1.69	<5	8	70	<5	.39	<1	9	18	8	2.68	.22	20	.49	360	<1	.01	8	910	12	<5	<20	20	.10	<10	51	<10	9	44
38 -	12 W	14 N	<5	<.2	1.68	5	8	80	<5	.53	<1	11	17	5	3.51	.28	30	.65	538	<1	<0.01	8	1260	12	<5	<20	24	.09	<10	63	<10	4	44
39 -	13 W	11 N	<5	<.2	2.52	10	6	125	<5	.24	<1	11	23	9	2.77	.09	10	.29	275	<1	.02	17	1210	18	<5	<20	23	.11	<10	49	<10	4	44
40 -	13 W	12 N	<5	<.2	2.45	10	8	95	<5	.23	<1	10	19	8	2.39	.12	20	.34	396	<1	.01	9	1300	18	<5	<20	16	.13	<10	46	<10	6	48
41 -	13 W	13 N	<5	<.2	1.30	5	8	85	<5	.22	<1	8	19	6	1.98	.06	<10	.22	175	<1	.01	9	530	10	<5	<20	17	.10	<10	42	<10	4	29
42 -	13 W	14 N	<5	<.2	2.80	<5	6	100	<5	.22	<1	11	21	11	2.35	.08	10	.33	410	<1	.02	11	1380	20	<5	<20	19	.13	<10	44	<10	6	54
43 -	14 W	11 N	<5	<.2	2.01	<5	6	100	<5	.20	<1	9	19	7	1.99	.07	10	.26	235	<1	.01	12	1170	16	<5	<20	19	.11	<10	39	<10	5	39
44 -	14 W	12 N	<5	<.2	2.59	<5	8	110	<5	.18	<1	9	17	9	1.88	.07	10	.21	263	<1	.02	12	1920	20	<5	<20	18	.11	<10	32	<10	5	33
45 -	14 W	13 N	<5	<.2	2.13	<5	8	85	<5	.17	<1	9	15	7	1.98	.05	<10	.21	120	<1	.02	11	1670	16	<5	<20	15	.11	<10	36	<10	4	32
46 -	14 W	14 N	<5	<.2	1.41	<5	8	70	<5	.19	<1	7	13	5	1.41	.06	<10	.18	93	<1	.02	9	280	12	<5	<20	17	.09	<10	24	<10	3	24
47 -	10 E	2 + 25S	<5	<.2	2.35	<5	8	140	<5	.34	<1	9	19	9	2.21	.12	10	.33	263	<1	.02	10	890	16	<5	<20	32	.11	<10	34	<10	3	46
48 -	10 E	2 +50 S	<5	<.2	2.71	10	8	130	<5	.48	<1	22	66	73	3.43	.44	10	1.14	467	<1	.02	35	680	16	5	<20	44	.18	<10	77	<10	6	61
49 -	10 E	2 +75 S	<5	<.2	2.38	5	6	140	<5	.37	<1	13	23	14	2.56	.12	10	.47	390	<1	.01	13	630	16	<5	<20	34	.13	<10	51	<10	4	60
50 -	10 E	3 S	<5	.2	2.62	<5	8	145	<5	.39	<1	14	18	28	2.68	.15	10	.42	879	<1	.02	13	1310	18	<5	<20	31	.13	<10	46	<10	6	82
51 -	10 E	3 +25 S	<5	<.2	2.23	<5	8	105	<5	.30	<1	12	30	10	2.44	.09	10	.46	363	<1	.01	20	990	16	5	<20	31	.12	<10	49	<10	4	52
52 -	19 E	0 +50 S	<5	<.2	1.26	10	10	105	<5	.98	<1	11	21	21	2.80	.38	30	.49	648	<1	<0.01	9	870	8	<5	<20	48	.11	<10	58	<10	9	38
53 -	19 E	1 SSILT	<5	<.2	1.33	10	8	90	<5	.84	<1	15	39	11	3.17	.13	30	.72	1724	<1	.02	17	1280	8	5	<20	72	.12	<10	82	<10	11	59
54 -	19 E	1 SSOIL	<5	<.2	.78	15	8	40	<5	.55	<1	10	29	8	3.31	.12	20	.45	353	<1	.02	10	1000	6	<5	<20	38	.10	<10	77	<10	5	31
55 -	19 E	1 +25 S	<5	<.2	1.16	10	8	60	<5	.83	<1	9	23	21	2.30	.12	20	.40	608	<1	.01	9	840	8	<5	<20	56	.08	<10	53	<10	7	41
56 -	19 E	1 +50 S	65	.7	2.31	10	8	95	<5	.98	<1	16	16	122	3.23	.31	20	.59	1274	<1	<0.01	7	890	14	<5	<20	217	.10	<10	76	<10	8	65
57 -	19 E	1 +75 S	50	.4	1.73	10	8	70	<5	.48	<1	13	25	40	3.05	.34	20	.59	513	<1	.01	9	460	12	<5	<20	53	.13	<10	68	<10	8	59
58 -	19 E	2 S	<5	.2	1.54	5	8	80	<5	.82	<1	13	31	17	2.73	.28	30	.60	389	<1	.01	14	600	12	<5	<20	55	.13	<10	55	<10	10	47
59 -	19 E	2 +25 S	<5	.3	1.72	10	8	75	<5	.52	<1	12	30	16	2.87	.32	20	.57	450	<1	.01	12	670	12	<5	<20	44	.13	<10	59	<10	9	48
60 -	19 E	2 +50 S	<5	1.6	1.46	10	8	55	<5	.30	<1	11	25	24	2.57	.15	10	.40	296	<1	.01	10	320	10	<5	<20	20	.12	<10	52	<10	3	37
61 -	19 E	3 S	<5	<.2	1.99	5	8	115	<5	.25	<1	10	22	10	2.79	.14	10	.34	363	<1	.02	13	1260	14	<5	<20	22	.11	<10	53	<10	3	64
62 -	19 E	3 +50 S	<5	<.2	2.91	5	8	140	<5	.28	<1	13	22	32	2.56	.08	10	.38	389	<1	.02	12	1000	20	<5	<20	26	.14	<10	48	<10	6	59
63 -	19 E	4 S	<5	<.2	2.13	5	8	130	<5	.29	<1	9	19	9	2.21	.11	10	.29	287	<1	.02	10	1240	16	<5	<20	30	.11	<10	38	<10	4	48

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
64 -	19 E 4 +50 S	<5	<.2	2.29	5	8	125	<5	.32	<1	10	22	13	2.33	.15	20	.36	252	<1	.02	12	1040	16	<5	<20	34	.12	<10	42	<10	6	55
65 -	19 E 5 S	<5	<.2	3.75	5	8	125	<5	.29	<1	20	20	89	3.36	.09	10	.53	506	<1	.01	12	2140	24	5	<20	27	.15	<10	67	<10	6	90
66 -	19 E 5 +50 S	<5	<.2	2.29	10	8	90	<5	.41	<1	13	29	13	3.10	.21	20	.60	246	<1	.02	16	800	14	5	<20	39	.14	<10	61	<10	5	47
67 -	19 E 6 S	<5	<.2	2.79	5	8	170	<5	.30	<1	13	25	24	2.77	.16	10	.44	251	<1	.02	10	1350	10	5	<20	37	.13	<10	46	<10	4	70
68 -	19 E 6 +25 S	<5	<.2	2.47	5	8	95	<5	.36	<1	13	25	26	3.04	.20	20	.47	210	<1	.02	14	720	16	5	<20	41	.13	<10	57	<10	4	53
69 -	19 E 6 +50 S	<5	<.2	2.42	<5	6	80	<5	.40	<1	12	20	33	2.43	.19	10	.42	244	<1	.01	13	700	16	<5	<20	41	.12	<10	44	<10	5	50
70 -	19 E 6 +75 S	<5	<.2	2.65	<5	8	95	<5	.56	<1	12	24	31	2.55	.21	10	.43	212	<1	.02	16	1050	10	<5	<20	50	.13	<10	51	<10	7	49
71 -	19 E 7 S	<5	<.2	1.93	10	8	135	<5	.33	<1	11	19	22	2.22	.12	10	.33	541	<1	.01	11	1060	14	<5	<20	35	.10	<10	44	<10	4	70
72 -	19 E 7 +25 S	<5	<.2	2.32	10	8	165	<5	.44	<1	12	19	34	2.59	.14	10	.36	700	<1	.01	10	1430	16	<5	<20	44	.12	<10	54	<10	4	93
73 -	19 E 7 +50 S	<5	<.2	1.46	10	8	80	<5	.37	<1	11	30	16	2.41	.19	10	.43	255	<1	.02	12	550	12	<5	<20	35	.13	<10	55	<10	5	43
74 -	19 E 7 +75 S	<5	<.2	2.03	<5	8	150	<5	.63	<1	12	19	33	2.20	.17	10	.36	450	<1	.01	11	2100	14	<5	<20	49	.10	<10	45	<10	4	75
75 -	19 E 8 S	<5	<.2	2.65	5	8	95	<5	.37	<1	13	20	39	2.00	.20	20	.50	269	<1	.01	15	1050	10	<5	<20	34	.15	<10	60	<10	6	55
76 -	19 E 8 +25 S	<5	<.2	1.97	<5	6	75	<5	.35	<1	12	29	33	2.03	.21	20	.46	226	<1	.01	12	600	14	<5	<20	33	.14	<10	66	<10	5	43
77 -	19 E 8 +50 S	<5	<.2	2.59	<5	10	90	<5	.40	<1	13	36	31	2.05	.30	20	.51	269	<1	.02	17	610	20	<5	<20	39	.17	<10	57	<10	9	60
78 -	19 E 8 +75 S	<5	<.2	2.71	5	8	125	<5	.65	<1	19	63	53	3.95	.45	30	.79	576	<1	.02	26	700	20	10	<20	57	.21	<10	91	<10	10	80
79 -	19 E 9 S	<5	<.2	2.33	10	8	95	<5	.47	<1	16	35	56	3.62	.35	20	.70	353	<1	.02	15	610	16	<5	<20	41	.19	<10	91	<10	12	54
80 -	19 E 9 +25 S	<5	.2	2.22	10	10	80	<5	.63	<1	16	39	33	3.01	.36	20	.63	407	<1	.02	15	470	16	5	<20	40	.10	<10	69	<10	11	60
81 -	19 E 9 +50 S	<5	.4	2.55	10	8	115	<5	.55	<1	10	33	39	3.04	.37	20	.62	427	<1	.02	17	650	10	<5	<20	43	.10	<10	66	<10	8	66
82 -	19 E 9 +75 S	<5	<.2	2.60	15	8	90	<5	.50	<1	17	20	80	3.54	.56	20	.70	364	<1	.02	15	530	10	5	<20	33	.20	<10	90	<10	17	63
83 -	19 E 10 S	<5	<.2	2.15	5	8	90	<5	.41	<1	14	36	34	2.70	.32	20	.57	404	<1	.02	17	410	16	<5	<20	35	.10	<10	62	<10	10	67
84 -	19 E 0 + 0 0	<5	<.2	1.04	5	10	70	<5	.66	<1	13	23	17	2.01	.51	30	.60	364	<1	.02	10	620	14	5	<20	41	.17	<10	56	<10	14	43
85 -	19 E 0 +50 N	<5	<.2	1.09	15	8	50	<5	.43	<1	11	35	8	3.00	.22	30	.49	249	<1	.02	12	760	8	<5	<20	30	.14	<10	90	<10	7	36
86 -	19 E 3 N	<5	<.2	1.50	10	8	80	<5	.33	<1	11	27	6	3.19	.17	20	.36	366	<1	.02	11	400	14	<5	<20	32	.14	<10	69	<10	5	44
87 -	19 E 3 +50 N	<5	<.2	2.05	10	10	115	<5	.37	<1	11	23	7	2.02	.16	20	.37	295	<1	.02	12	740	16	<5	<20	30	.13	<10	56	<10	5	49
88 -	19 E 4 N	<5	<.2	1.74	5	8	110	<5	.20	<1	9	23	8	2.47	.13	20	.32	210	<1	.02	11	930	14	<5	<20	25	.12	<10	40	<10	4	46
89 -	19 E 5 N	<5	<.2	1.21	5	8	75	<5	.20	<1	8	22	6	2.14	.13	20	.20	257	<1	.02	8	540	10	<5	<20	29	.12	<10	45	<10	5	40
90 -	19 E 6 N	<5	<.2	2.33	<5	8	120	<5	.31	<1	10	26	10	2.45	.13	20	.34	199	<1	.02	12	1200	10	<5	<20	30	.13	<10	44	<10	6	40
91 -	19 E 6 +50 N	<5	<.2	1.79	10	8	135	<5	.35	<1	11	23	7	2.71	.16	20	.37	960	<1	.02	11	1090	14	<5	<20	32	.12	<10	55	<10	5	84
92 -	19 E 7 N	<5	<.2	3.19	<5	10	150	<5	.45	<1	15	32	12	3.26	.21	20	.64	331	<1	.03	21	970	24	5	<20	52	.10	<10	66	<10	8	76
93 -	19 E 7 +50 N	<5	<.2	2.20	<5	8	125	<5	.32	<1	9	22	7	2.24	.19	20	.31	233	<1	.03	10	670	10	<5	<20	44	.14	<10	44	<10	6	40
94 -	19 E 8 N	<5	<.2	1.66	5	8	125	<5	.31	<1	8	22	5	2.11	.10	10	.29	331	<1	.02	7	390	14	<5	<20	51	.14	<10	45	<10	5	56
95 -	19 E 8 +50 N	<5	<.2	2.15	5	8	135	<5	.46	<1	10	27	8	2.34	.20	20	.32	541	<1	.02	10	620	10	<5	<20	50	.16	<10	40	<10	7	73
96 -	19 E 9 N	<5	<.2	2.44	<5	8	135	<5	.53	<1	10	17	9	2.10	.17	20	.30	300	<1	.03	15	1000	20	<5	<20	40	.13	<10	30	<10	6	60
97 -	19 E 9 +50 N	<5	<.2	1.69	<5	10	145	<5	.81	<1	8	9	8	1.30	.10	30	.30	300	<1	.03	7	2400	16	<5	<20	110	.13	<10	20	<10	12	40
98 -	19 E 10 N	<5	<.2	2.72	<5	10	220	<5	.74	<1	11	14	11	1.99	.10	30	.44	425	<1	.02	8	2350	24	<5	<20	93	.15	<10	39	<10	12	69
99 -	20 E 0 + 0 0	<5	<.2	1.61	<5	8	110	<5	.27	<1	8	15	8	1.75	.10	10	.24	276	<1	.02	10	1690	14	<5	<20	20	.10	<10	32	<10	5	51
100-	20 E 1 N	<5	<.2	2.17	10	10	115	<5	.40	<1	11	26	9	2.56	.17	20	.40	510	<1	.03	13	800	10	<5	<20	45	.14	<10	49	<10	7	73

ECO-TECH LABORATORIES LTD. JOHN MURRAY - ETK 91-387

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
101-	20 E 1 +50 N	<5	<.2	1.56	5	8	75	<5	.30	<1	9	25	6	2.55	.16	20	.32	209	<1	.02	10	570	14	<5	<20	30	.13	<10	53	<10	5	37
102-	20 E 2 N	<5	<.2	1.55	5	10	90	<5	.34	<1	9	20	9	2.05	.12	20	.31	263	<1	.02	10	1350	14	<5	<20	32	.11	<10	40	<10	7	44
103-	20 E 2 +50 N	<5	<.2	1.82	10	8	95	<5	.31	<1	10	23	8	2.36	.13	20	.33	334	<1	.02	11	1090	16	<5	<20	28	.12	<10	47	<10	5	55
104-	20 E 3 +50 N	<5	<.2	1.87	10	8	120	<5	.30	<1	10	22	7	2.55	.12	20	.33	260	<1	.02	11	720	16	<5	<20	30	.12	<10	50	<10	5	51
105-	20 E 4 N	<5	<.2	2.02	5	8	120	<5	.39	<1	10	24	7	2.80	.18	20	.36	363	<1	.02	12	810	16	<5	<20	30	.13	<10	55	<10	4	69
106-	20 E 4 +50 N	<5	<.2	.97	10	6	65	<5	.27	<1	8	23	5	2.55	.12	20	.30	221	<1	.02	7	520	10	<5	<20	28	.12	<10	55	<10	4	32
107-	20 E 5 N	<5	<.2	1.82	5	8	95	<5	.27	<1	10	24	7	2.54	.13	10	.35	199	<1	.02	12	430	16	<5	<20	30	.13	<10	51	<10	4	39
108-	20 E 5 +50 N	<5	<.2	2.66	5	8	160	<5	.39	<1	13	24	12	2.82	.18	20	.50	240	<1	.02	15	1410	22	<5	<20	30	.14	<10	55	<10	6	64
109-	20 E 6 N	<5	<.2	1.32	15	8	70	<5	.35	<1	10	34	6	2.99	.16	20	.36	225	<1	.02	9	630	12	<5	<20	54	.16	<10	78	<10	7	30
110-	20 E 6 +50 N	<5	<.2	1.15	10	8	75	<5	.30	<1	9	31	4	2.55	.15	20	.30	232	<1	.03	8	480	10	<5	<20	66	.15	<10	69	<10	6	35
111-	20 E 7 N	<5	<.2	1.92	5	8	110	<5	.31	<1	10	23	8	2.39	.14	20	.36	316	<1	.02	11	830	16	5	<20	33	.13	<10	46	<10	6	53
112-	20 E 7 +50 N	<5	<.2	1.39	<5	8	95	<5	.28	<1	8	21	4	2.08	.15	20	.30	226	<1	.02	6	320	12	<5	<20	33	.14	<10	46	<10	6	41
113-	20 E 8 N	<5	<.2	1.65	5	8	120	<5	.36	<1	10	28	6	2.34	.19	20	.37	223	<1	.02	7	420	14	<5	<20	54	.16	<10	56	<10	7	48
114-	20 E 8 +50 N	<5	<.2	2.31	<5	8	125	<5	.57	<1	10	17	13	2.15	.11	20	.40	228	<1	.02	13	2790	20	<5	<20	55	.12	<10	39	<10	8	74
115-	20 E 9 N	<5	<.2	2.17	<5	8	100	<5	.39	<1	10	27	7	2.53	.16	20	.39	254	<1	.03	9	420	20	<5	<20	54	.17	<10	54	<10	6	48
116-	20 E 9 +50 N	<5	<.2	3.51	<5	10	130	<5	.65	<1	11	16	11	2.27	.13	20	.38	422	<1	.02	9	2040	30	<5	<20	63	.16	<10	44	<10	10	61
117-	20 E 10 N	<5	<.2	3.26	<5	10	145	<5	.33	<1	11	20	13	2.24	.11	30	.43	260	<1	.03	12	1950	28	<5	<20	47	.17	<10	41	<10	11	56
118-	20 E 0 +50 S	<5	<.2	.91	10	6	50	<5	.30	<1	9	26	4	2.54	.11	20	.27	209	<1	.02	8	550	8	<5	<20	28	.11	<10	58	<10	5	28
119-	20 E 0 +85 S	<5	<.2	1.71	10	8	80	<5	.35	<1	10	28	6	2.86	.16	20	.35	234	<1	.03	11	480	14	<5	<20	35	.14	<10	59	<10	6	40
120-	20 E 1 +50 S	<5	<.2	1.50	10	10	55	<5	.71	<1	13	35	14	2.88	.43	30	.61	239	<1	.02	8	460	12	5	<20	57	.15	<10	56	<10	11	29
121-	20 E 2S SILT	<5	<.2	.88	15	8	70	<5	.52	<1	12	30	8	3.07	.10	40	.59	419	<1	.03	14	840	10	<5	<20	48	.13	<10	82	<10	7	54
122-	20 E 2S SOIL	<5	<.2	1.99	<5	8	165	<5	.76	<1	25	15	91	2.76	.34	20	.53	1151	<1	.04	10	1470	14	5	<20	56	.13	<10	64	<10	6	88
123-	20 E 2 +25 S	<5	<.2	2.19	<5	8	95	<5	.30	<1	12	19	12	2.47	.22	20	.49	263	<1	.02	8	560	18	5	<20	29	.16	<10	50	<10	7	41
124-	20 E 2 +50 S	<5	<.2	3.69	<5	10	125	<5	.70	<1	47	30	293	5.79	1.09	30	1.90	899	1	.01	27	810	20	10	<20	30	.28	<10	179	<10	16	92
125-	20 E 2 +75 S	<5	.5	3.19	<5	10	160	<5	.64	<1	34	15	263	4.03	.25	20	.60	758	<1	.01	15	1340	24	10	<20	46	.15	<10	81	<10	8	108
126-	20 E 3 S	<5	<.2	2.05	<5	8	100	<5	.29	<1	10	17	18	2.19	.13	10	.30	270	<1	.02	9	390	16	<5	<20	28	.12	<10	34	<10	4	53
127-	20 E 3 +25 S	<5	<.2	1.78	<5	8	90	<5	.31	<1	9	20	9	2.11	.10	10	.30	346	<1	.02	9	760	14	<5	<20	26	.10	<10	38	<10	3	51
128-	20 E 3 +50 S	<5	<.2	2.64	<5	8	110	<5	.35	<1	11	23	12	2.70	.08	20	.30	351	<1	.02	11	610	20	<5	<20	31	.14	<10	52	<10	5	54
129-	20 E 4 S	<5	<.2	2.32	<5	8	150	<5	.38	<1	11	22	9	2.41	.15	20	.40	391	<1	.03	13	1300	18	<5	<20	34	.12	<10	45	<10	5	83
130-	20 E 4 +50 S	<5	<.2	2.44	<5	8	150	<5	.32	<1	10	22	12	2.08	.11	20	.36	255	<1	.02	12	1970	20	<5	<20	30	.13	<10	36	<10	7	62
131-	20 E 5 S	<5	<.2	2.44	<5	8	165	<5	.36	<1	9	20	9	2.05	.12	10	.33	407	<1	.02	12	920	20	<5	<20	31	.13	<10	34	<10	5	77
132-	20 E 5 +50 S	<5	<.2	2.24	<5	8	145	<5	.34	<1	9	18	11	1.99	.14	10	.30	408	<1	.02	12	1460	18	<5	<20	31	.12	<10	34	<10	5	59
133-	20 E 6 S	<5	<.2	2.02	<5	8	135	<5	.25	<1	9	17	12	1.80	.14	10	.27	148	<1	.03	12	1470	16	<5	<20	33	.11	<10	28	<10	5	41
134-	20 E 6 +50 S	<5	<.2	1.53	5	8	70	<5	.39	<1	11	29	12	2.66	.18	20	.42	261	<1	.02	10	880	12	<5	<20	33	.13	<10	59	<10	6	45
135-	20 E 7 S	<5	<.2	2.43	<5	8	110	<5	.41	<1	12	25	21	2.87	.16	20	.44	251	<1	.02	14	670	18	<5	<20	39	.14	<10	54	<10	6	66
136-	20 E 7 +25 S	<5	<.2	2.59	<5	8	110	<5	.43	<1	14	35	25	3.79	.22	30	.59	305	<1	.02	16	770	20	5	<20	47	.17	<10	85	<10	8	48

ECO-TECH LABORATORIES LTD. JOHN MURRAY - ETK 91-387

PAGE 5

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
137-	20 E 7 +50 S	<5	<.2	2.62	<5	8	135	<5	.38	<1	10	28	19	3.85	.17	20	.46	304	<1	.02	14	760	20	<5	<20	40	.14	<10	58	<10	7	72
138-	20 E 7 +75 S	<5	<.2	2.45	<5	8	120	<5	.35	<1	12	30	16	3.34	.18	20	.46	242	<1	.02	14	650	18	5	<20	38	.15	<10	68	<10	6	58
139-	20 E 8 S	<5	<.2	3.24	<5	6	85	<5	.41	<1	17	39	67	3.82	.20	20	.66	395	<1	.01	20	580	22	5	<20	35	.18	<10	83	<10	8	60
140-	20 E 8 +25 S	<5	<.2	1.89	5	6	70	<5	.42	<1	13	36	25	4.28	.23	20	.58	314	<1	.01	15	750	12	<5	<20	37	.14	<10	94	<10	6	47
141-	20 E 8 +50 S	<5	<.2	2.30	5	6	90	<5	.43	<1	14	36	17	4.50	.26	30	.62	287	<1	.01	17	800	16	5	<20	39	.15	<10	96	<10	8	51
142-	20 E 8 +75 S	<5	<.2	1.70	<5	6	145	<5	.34	<1	10	23	8	2.56	.18	10	.34	917	<1	.02	1	620	14	<5	<20	35	.12	<10	50	<10	4	80
143-	20 E 9 S	<5	<.2	2.19	<5	6	205	<5	.34	<1	11	25	10	2.49	.21	10	.36	375	<1	.02	13	1030	18	5	<20	35	.14	<10	45	<10	5	93
144-	20 E 9 +25 S	<5	<.2	2.07	<5	8	95	<5	.35	<1	11	31	9	2.86	.23	10	.42	260	<1	.02	13	720	16	<5	<20	35	.15	<10	56	<10	6	58
145-	20 E 9 +50 S	<5	<.2	2.56	<5	6	115	<5	.32	<1	12	28	11	2.97	.21	10	.45	193	<1	.02	14	720	20	<5	<20	37	.15	<10	55	<10	5	46
146-	20 E 9 +75 S	<5	<.2	2.33	<5	6	105	<5	.42	<1	10	27	11	2.57	.23	10	.38	422	<1	.02	13	610	18	5	<20	36	.15	<10	46	<10	5	51
147-	20 E 10 S	<5	<.2	2.57	<5	6	121	<5	.42	<1	13	33	16	3.29	.20	20	.51	307	<1	.02	17	630	18	5	<20	38	.16	<10	63	<10	7	61
148-	21 E 0 +50 S	<5	<.2	1.46	<5	6	70	<5	.78	<1	10	31	10	2.45	.14	20	.49	287	<1	.03	12	1680	10	5	<20	59	.11	<10	52	<10	10	32
149-	21 E 1 S	<5	<.2	.66	10	8	30	<5	.36	<1	9	29	6	3.18	.13	30	.45	259	<1	.02	10	720	4	<5	<20	34	.10	<10	77	<10	5	38
150-	21 E 1 +50 S	<5	<.2	1.08	<5	8	40	<5	.31	<1	8	26	5	2.43	.15	20	.31	186	<1	.02	7	310	8	<5	<20	33	.12	<10	52	<10	8	28
151-	21 E 2 S	<5	<.2	1.37	<5	8	65	<5	.35	<1	9	24	7	2.72	.18	20	.32	259	<1	.03	10	490	10	<5	<20	38	.11	<10	53	<10	7	29
152-	21 E 2 +50 S	<5	<.2	1.71	5	10	60	<5	1.63	<1	13	24	20	3.14	.40	30	.61	307	<1	.01	11	610	12	5	<20	55	.14	<10	54	<10	12	33
153-	21 E 3 S	<5	<.2	1.92	<5	10	55	<5	.57	<1	15	24	34	2.93	.42	20	.64	358	<1	.02	12	340	14	5	<20	49	.15	<10	48	<10	11	47
154-	21 E 3 +50 S	<5	<.2	1.73	<5	8	90	<5	.41	<1	10	25	7	2.65	.25	20	.36	358	<1	.03	9	400	12	5	<20	43	.14	<10	52	<10	6	57
155-	21 E 4 +50 S	<5	<.2	1.36	<5	6	60	<5	.41	<1	11	20	13	2.41	.20	20	.34	304	<1	.02	8	660	10	<5	<20	40	.11	<10	50	<10	8	37
156-	21 E 5 S	<5	<.2	2.16	<5	6	160	<5	.35	<1	7	13	10	1.57	.12	10	.25	340	<1	.02	8	3190	16	<5	<20	36	.10	<10	25	<10	6	59
157-	21 E 5 +25 S	<5	<.2	1.85	5	8	100	<5	.59	<1	15	43	13	3.82	.25	30	.66	371	<1	.03	16	1016	14	5	<20	60	.16	<10	87	<10	6	54
158-	21 E 5 +50 SSOIL	<5	<.2	2.64	20	4	80	<5	.86	<1	44	12	260	6.69	.74	30	1.29	1286	1	<.01	11	916	12	5	<20	45	.12	<10	159	<10	20	85
159-	21 E 5 +50 SSILT	<5	<.2	1.85	10	8	65	<5	.68	<1	13	36	15	3.52	.13	30	.67	483	<1	.03	14	982	8	5	<20	58	.13	<10	91	<10	7	48
160-	21 E 5 +75 S	<5	<.2	2.57	10	8	125	<5	.99	<1	35	20	198	5.97	.69	20	1.41	1082	1	.01	18	908	14	5	<20	42	.17	<10	154	<10	13	47
161-	21 E 6 S	<5	<.2	3.55	<5	10	90	<5	.63	<1	26	14	137	5.19	.77	20	1.12	366	1	.02	10	626	20	5	<20	44	.19	<10	107	<10	8	103
162-	21 E 6 +25 S	<5	<.2	3.08	<5	8	130	<5	.60	<1	24	21	78	4.32	.58	20	.91	591	<1	.01	16	566	18	5	<20	37	.19	<10	95	<10	7	88
163-	21 E 6 +50 S	<5	<.2	2.90	5	8	120	<5	.85	<1	34	18	176	5.78	.75	20	1.40	510	<1	.01	10	523	16	5	<20	41	.25	<10	160	<10	12	114
164-	21 E 6 +75 S	<5	<.2	2.47	<5	8	130	<5	.40	<1	12	22	17	2.98	.16	10	.45	395	<1	.02	13	884	18	<5	<20	31	.13	<10	56	<10	4	97
165-	21 E 7 S	<5	<.2	2.73	<5	8	210	<5	.56	<1	13	24	10	3.00	.21	20	.58	715	<1	.02	16	1776	20	5	<20	41	.14	<10	56	<10	6	108
166-	21 E 7 +25 S	<5	<.2	2.09	<5	6	110	<5	.44	<1	14	25	22	3.07	.24	20	.60	303	<1	.01	12	560	22	5	<20	35	.16	<10	60	<10	6	55
167-	21 E 7 +50 S	<5	.2	3.41	10	8	90	<5	.68	<1	32	28	164	5.38	.65	40	1.37	1082	3	.01	23	760	22	10	<20	22	.20	<10	253	<10	42	108
168-	21 E 7 +75 S	<5	<.2	2.57	<5	8	85	<5	.38	<1	12	26	15	2.72	.17	20	.48	235	<1	.02	14	570	22	5	<20	32	.15	<10	56	<10	6	52
169-	21 E 8 S	<5	<.2	2.23	<5	8	120	<5	.20	<1	10	24	9	2.51	.17	20	.37	197	<1	.02	11	490	18	5	<20	26	.14	<10	46	<10	5	63
170-	21 E 8 +25 S	<5	<.2	1.60	<5	8	100	<5	.32	<1	9	23	8	2.10	.19	20	.34	190	<1	.02	10	650	14	<5	<20	28	.12	<10	40	<10	5	36

ECO-TECH LABORATORIES LTD. JOHN MURRAY - ETK 91-387

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
171-	21 E 8 +50 S	<5	<.2	2.10	<5	6	160	<5	.26	<1	9	20	10	2.04	.16	20	.32	154	<1	.02	12	1290	18	<5	<20	26	.12	<10	32	<10	5	38
172-	21 E 8 +75 S	<5	<.2	2.66	<5	8	165	<5	.28	<1	10	18	11	2.00	.13	10	.30	309	<1	.03	11	1150	22	<5	<20	26	.13	<10	29	<10	6	51
173-	21 E 9 S	<5	<.2	2.59	<5	8	120	<5	.33	<1	11	17	19	2.32	.13	10	.36	287	<1	.02	12	1640	22	<5	<20	23	.13	<10	42	<10	5	97
174-	21 E 9 +25 S	<5	<.2	2.77	<5	8	145	<5	.36	<1	13	27	13	3.02	.15	20	.52	267	<1	.02	15	1500	22	<5	<20	36	.14	<10	61	<10	6	70
175-	21 E 9 +50 S	<5	<.2	3.09	<5	6	190	<5	.36	<1	12	24	12	2.50	.13	20	.44	247	<1	.02	15	1720	26	5	<20	33	.15	<10	44	<10	7	64
176-	21 E 9 +75 S	<5	<.2	2.91	<5	6	145	<5	.32	<1	11	20	12	2.22	.14	20	.30	392	<1	.02	12	1010	24	<5	<20	27	.13	<10	37	<10	6	73
177-	21 E 10 S	<5	<.2	1.79	<5	8	100	<5	.34	<1	9	23	8	2.08	.12	20	.35	200	<1	.02	10	630	16	<5	<20	30	.13	<10	39	<10	6	41
178-	21 E 0 + 0 0	<5	<.2	1.15	<5	8	115	<5	.32	<1	6	9	9	1.19	.16	<10	.17	308	<1	.03	6	1050	10	<5	<20	28	.07	<10	22	<10	4	55
179-	21 E 0 +50 N	<5	<.2	1.86	<5	8	105	<5	.34	<1	11	29	12	2.82	.17	30	.42	250	<1	.02	13	920	16	5	<20	35	.14	<10	61	<10	8	43
180-	21 E 1 N	<5	<.2	1.62	5	6	85	<5	.36	<1	10	30	6	3.19	.15	20	.38	277	<1	.02	10	600	14	5	<20	36	.14	<10	72	<10	4	52
181-	21 E 1 +50 N	<5	<.2	1.19	5	6	65	<5	.31	<1	10	30	6	2.05	.14	30	.37	295	<1	.02	10	610	10	<5	<20	30	.13	<10	69	<10	6	36
182-	21 E 2 N	<5	<.2	1.25	<5	8	65	<5	.38	<1	8	17	8	1.90	.13	20	.26	223	<1	.02	10	1270	12	<5	<20	42	.09	<10	38	<10	4	50
183-	21 E 2 +50 N	<5	<.2	1.73	<5	8	95	<5	.33	<1	9	20	9	2.34	.12	20	.31	320	<1	.02	11	1430	14	<5	<20	34	.11	<10	46	<10	5	66
184-	21 E 3 N	<5	.9	3.15	<5	8	80	<5	.70	<1	13	42	32	3.53	.15	50	.60	640	<1	.03	20	400	24	<5	<20	71	.15	<10	66	<10	36	53
185-	21 E 3 +50 N	<5	<.2	2.01	<5	8	110	<5	.27	<1	10	20	11	2.15	.12	20	.33	286	<1	.02	12	1470	18	<5	<20	28	.12	<10	40	<10	6	63
186-	21 E 4 N	<5	<.2	2.25	<5	8	160	<5	.29	<1	10	23	9	2.47	.13	20	.34	193	<1	.02	13	1100	20	<5	<20	33	.13	<10	44	<10	5	56
187-	21 E 4 +50 N	<5	<.2	1.76	<5	8	105	<5	.34	<1	10	24	8	2.52	.13	20	.33	318	<1	.02	12	810	14	<5	<20	28	.12	<10	51	<10	5	52
188-	21 E 5 N	<5	<.2	2.05	5	8	145	<5	.31	<1	9	18	12	1.88	.11	20	.29	247	<1	.03	11	1940	18	<5	<20	39	.11	<10	32	<10	7	49
189-	21 E 5 +50 N	<5	<.2	1.95	<5	8	105	<5	.37	<1	10	30	8	2.37	.19	20	.37	244	<1	.03	9	470	18	5	<20	60	.16	<10	53	<10	7	41
190-	21 E 6 N	<5	<.2	1.61	<5	8	100	<5	.39	<1	10	30	6	2.26	.17	30	.29	235	<1	.03	7	420	16	<5	<20	74	.17	<10	57	<10	9	42
191-	21 E 6 +50 N	<5	.2	1.88	<5	8	110	<5	.35	<1	10	31	7	2.20	.18	20	.32	220	<1	.02	10	470	18	<5	<20	56	.16	<10	54	<10	8	46
192-	21 E 7 N	<5	.4	2.00	<5	8	90	<5	.35	<1	9	25	7	2.01	.16	20	.30	198	<1	.03	11	710	18	<5	<20	56	.14	<10	42	<10	7	43
193-	21 E 7 +50 N	<5	.2	1.44	5	8	100	<5	.40	<1	8	26	5	2.22	.19	20	.28	339	<1	.02	6	560	14	<5	<20	52	.13	<10	51	<10	5	67
194-	21 E 8 N	<5	.2	1.98	<5	8	105	<5	.45	<1	12	36	9	2.87	.17	30	.49	272	<1	.02	13	810	18	5	<20	73	.16	<10	70	<10	7	56
195-	21 E 8 +50 N	<5	.2	2.77	<5	6	185	<5	.37	<1	11	17	8	2.26	.18	30	.36	408	<1	.02	7	640	26	<5	<20	73	.19	<10	46	<10	9	73
196-	21 E 9 N	<5	.2	3.81	<5	8	195	<5	.49	<1	11	21	9	2.58	.21	30	.44	517	<1	.02	10	650	32	<5	<20	90	.18	<10	44	<10	9	84
197-	21 E 9 +50 N	<5	<.2	3.05	<5	10	170	<5	.46	<1	12	20	8	2.28	.19	20	.36	369	<1	.03	11	760	28	5	<20	94	.18	<10	46	<10	8	96
198-	21 E 10 N	<5	.2	3.12	<5	8	80	<5	.48	<1	10	29	11	2.22	.11	30	.46	237	<1	.03	10	570	26	<5	<20	51	.15	<10	40	<10	12	93
199-	22 E 0 +50 N	<5	<.2	1.56	<5	8	100	<5	.33	<1	9	21	10	2.37	.12	20	.30	231	<1	.02	10	1350	14	<5	<20	29	.10	<10	48	<10	5	48
200-	22 E 1 N	<5	.2	1.91	<5	8	135	<5	.29	<1	6	11	11	1.39	.11	20	.24	302	<1	.03	7	620	16	<5	<20	33	.08	<10	18	<10	7	65
201-	22 E 4 N	<5	.2	1.78	<5	8	100	<5	.25	<1	9	20	8	2.34	.14	20	.29	222	<1	.02	9	560	16	<5	<20	23	.11	<10	43	<10	4	44
202-	22 E 4 +50 N	<5	.4	1.74	<5	6	100	<5	.29	<1	9	20	8	2.25	.15	20	.30	205	<1	.02	9	750	16	<5	<20	34	.12	<10	44	<10	4	43

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
203-	22 E 5 N	<5	.2	1.89	<5	8	90	<5	.33	<1	9	27	7	2.15	.17	20	.29	321	<1	.02	9	570	16	<5	<20	52	.15	<10	48	<10	6	51
204-	22 E 5 +50 N	<5	<.2	2.08	<5	8	115	<5	.40	<1	9	26	8	2.00	.16	20	.30	352	<1	.02	11	900	18	<5	<20	54	.14	<10	44	<10	7	58
205-	22 E 6 N	<5	<.2	1.25	<5	8	130	<5	.36	<1	8	29	4	2.01	.12	20	.23	395	<1	.03	6	530	12	<5	<20	63	.15	<10	54	<10	7	74
206-	22 E 6 +50 N	<5	.2	1.86	<5	8	135	<5	.39	<1	9	24	7	1.84	.15	20	.27	265	<1	.03	11	1690	16	<5	<20	73	.13	<10	41	<10	7	57
207-	22 E 7 N	<5	<.2	1.48	<5	8	130	<5	.47	<1	11	38	6	2.42	.19	30	.38	263	<1	.04	8	410	14	<5	<20	102	.19	<10	68	<10	11	39
208-	22 E 7 +50 N	<5	<.2	1.96	<5	8	140	<5	.36	<1	11	32	9	2.23	.17	20	.36	505	<1	.02	11	1570	18	<5	<20	53	.15	<10	53	<10	5	60
209-	22 E 8 N	<5	<.2	1.89	<5	8	100	<5	.33	<1	9	28	6	2.05	.15	20	.30	210	<1	.04	8	340	18	<5	<20	56	.16	<10	45	<10	7	44
210-	22 E 8 +50 N	<5	<.2	2.58	<5	8	165	<5	.59	<1	10	18	7	2.33	.25	20	.37	330	<1	.02	7	690	24	<5	<20	90	.16	<10	46	<10	7	76
211-	22 E 9 N	<5	<.2	2.60	<5	8	160	<5	.43	<1	11	39	8	2.37	.23	20	.42	228	<1	.02	9	510	24	<5	<20	86	.18	<10	50	<10	7	45
212-	22 E 9 +50 N	<5	<.2	1.78	<5	10	160	<5	.59	<1	8	13	6	1.55	.13	10	.26	541	<1	.02	6	1840	16	<5	<20	63	.10	<10	29	<10	5	70
213-	22 E 10 N	<5	<.2	2.12	<5	8	105	<5	.32	<1	8	23	5	1.73	.12	10	.23	165	<1	.03	6	460	18	<5	<20	53	.14	<10	33	<10	6	33
214-	22 E 0 +50 S	<5	<.2	1.23	<5	6	65	<5	.28	<1	8	24	5	2.15	.12	20	.27	173	<1	.02	8	510	12	<5	<20	28	.12	<10	47	<10	5	28
215-	22 E 1 S	<5	<.2	2.09	<5	4	110	<5	.29	<1	9	23	7	2.19	.14	20	.31	266	<1	.02	10	500	18	<5	<20	30	.13	<10	41	<10	6	50
216-	22 E 2 +50 S	<5	.2	2.10	<5	10	125	<5	.35	<1	10	23	6	2.64	.23	20	.35	504	<1	.02	13	830	16	5	<20	35	.13	<10	53	<10	4	61
217-	22 E 3 +50 S	<5	.2	.82	5	10	60	<5	.47	<1	8	24	5	2.34	.23	20	.28	262	<1	.04	6	410	8	<5	<20	46	.10	<10	47	<10	5	27
218-	22 E 4 S	<5	.2	1.27	<5	10	60	<5	.34	<1	8	27	7	1.91	.29	20	.33	225	<1	.03	6	190	10	<5	<20	47	.11	<10	33	<10	6	28
219-	22 E 4 +50 S	<5	.2	1.45	<5	8	70	<5	.36	<1	9	16	9	2.17	.34	20	.35	284	<1	.02	6	240	12	5	<20	31	.13	<10	41	<10	8	37
220-	22 E 5 S	<5	.2	1.00	<5	8	60	<5	.27	<1	8	19	6	2.18	.18	20	.27	267	<1	.02	5	230	10	<5	<20	31	.11	<10	47	<10	6	33
221-	22 E 5 +50 S	<5	.2	1.04	5	8	65	<5	.29	<1	9	27	5	2.95	.16	20	.30	350	<1	.02	7	310	10	<5	<20	34	.12	<10	67	<10	5	40
222-	22 E 6 SSILT	<5	.2	.65	<5	6	40	<5	.38	<1	8	14	10	1.64	.09	30	.46	280	<1	.02	11	640	6	<5	<20	32	.08	<10	39	<10	6	30
223-	22 E 6 SSOIL	<5	.2	1.13	<5	8	55	<5	.46	<1	10	25	11	2.41	.23	30	.39	264	<1	.02	8	480	10	5	<20	41	.12	<10	56	<10	9	37
224-	22 E 6 +50 S	<5	.4	1.50	<5	8	195	<5	.41	<1	9	15	12	1.80	.15	10	.25	575	<1	.02	11	1390	12	<5	<20	42	.10	<10	31	<10	5	105
225-	22 E 7 S	<5	.6	4.09	<5	8	150	<5	.67	<1	35	13	201	5.59	.77	20	1.53	710	<1	.02	17	650	22	10	<20	34	.26	<10	157	<10	12	127
226-	22 E 7 +50 S	<5	<.2	1.81	10	8	85	<5	.33	<1	20	20	75	4.18	.21	20	.55	405	<1	.01	15	730	14	<5	<20	24	.12	<10	82	<10	3	96
227-	22 E 8 S	<5	<.2	2.37	<5	8	115	<5	.53	<1	23	21	105	3.60	.14	20	.47	489	<1	.02	22	1260	18	5	<20	40	.12	<10	63	<10	5	130
228-	22 E 8 +50 S	<5	<.2	3.00	<5	8	85	<5	.39	<1	14	17	36	2.90	.21	20	.47	236	<1	.02	14	470	22	5	<20	29	.14	<10	48	<10	6	79
229-	22 E 9 S	<5	<.2	3.25	<5	10	150	<5	.33	<1	23	19	49	3.12	.10	20	.44	1221	1	.02	15	1360	24	5	<20	29	.15	<10	63	<10	8	136
230-	22 E 9 +50 S	<5	<.2	2.27	<5	10	185	<5	.29	<1	12	18	17	2.41	.13	10	.39	642	<1	.02	12	1520	18	<5	<20	26	.12	<10	47	<10	5	171
231-	22 E 10 S	<5	<.2	3.28	<5	10	200	<5	.40	<1	12	19	15	2.42	.13	20	.44	674	<1	.02	13	2780	26	<5	<20	37	.16	<10	42	<10	11	86
232-	23 E 0 + 0 N	<5	<.2	1.50	<5	8	85	<5	.27	<1	8	17	6	1.86	.12	10	.26	221	<1	.02	9	630	12	<5	<20	27	.10	<10	35	<10	4	42
233-	23 E 1 +50 N	<5	<.2	1.26	<5	8	75	<5	.27	<1	8	25	5	2.53	.15	20	.29	274	<1	.02	8	380	12	<5	<20	29	.12	<10	54	<10	5	35
234-	23 E 2 N	<5	<.2	2.03	<5	8	125	<5	.41	<1	9	18	11	2.27	.17	20	.33	253	<1	.02	12	1390	16	<5	<20	34	.12	<10	42	<10	6	55

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
235-	23 E 3 +50 N	<5	<.2	1.56	<5	8	85	<5	.36	<1	9	23	7	2.55	.19	20	.34	283	<1	.02	10	530	14	5	<20	34	.13	<10	52	<10	6	47
236-	23 E 5 N	<5	<.2	1.79	<5	8	100	<5	.38	<1	9	25	11	2.13	.15	20	.31	244	<1	.03	12	1260	16	<5	<20	49	.13	<10	48	<10	8	63
237-	23 E 5 +50 N	<5	<.2	1.74	<5	8	105	<5	.46	<1	12	32	7	3.58	.19	30	.42	316	<1	.03	12	710	14	5	<20	51	.15	<10	78	<10	6	55
238-	23 E 6 N	<5	<.2	3.42	<5	10	120	<5	.84	<1	13	47	21	3.19	.14	70	.69	611	<1	.05	19	1060	24	5	<20	132	.16	<10	60	<10	35	77
239-	23 E 6 +50 N	<5	<.2	1.86	<5	10	125	<5	.41	<1	8	33	8	2.01	.16	20	.30	295	<1	.04	9	700	16	<5	<20	74	.14	<10	46	<10	7	100
240-	23 E 7 N	<5	<.2	2.09	<5	10	125	<5	.49	<1	11	44	9	2.61	.16	30	.43	237	<1	.04	11	610	18	5	<20	101	.18	<10	68	<10	11	46
241-	23 E 7 +50 N	<5	<.2	2.00	<5	8	130	<5	.49	<1	11	59	7	2.55	.18	30	.42	258	<1	.04	10	510	18	5	<20	107	.19	<10	70	<10	12	47
242-	23 E 8 N	<5	<.2	2.16	<5	8	145	<5	.80	<1	14	87	14	3.22	.14	50	.78	303	<1	.05	17	1340	16	10	<20	199	.19	<10	89	<10	19	50
243-	23 E 8 +50 N	<5	<.2	1.40	<5	8	110	<5	.41	<1	7	23	6	1.52	.14	10	.24	408	<1	.04	9	1300	12	<5	<20	68	.11	<10	36	<10	6	104
244-	23 E 9 N	<5	<.2	2.55	<5	8	175	<5	.57	<1	8	10	6	1.74	.24	20	.30	166	<1	.04	6	740	22	<5	<20	81	.17	<10	33	<10	8	79
245-	23 E 9 +50 N	<5	<.2	2.75	<5	8	240	<5	.72	<1	13	18	7	2.81	.27	60	.45	296	<1	.04	5	620	24	5	<20	164	.25	<10	71	<10	17	76
246-	23 E 10 N	<5	<.2	3.75	<5	8	235	<5	.50	<1	13	19	8	2.54	.17	30	.45	325	<1	.02	8	1120	30	<5	<20	201	.22	<10	55	<10	11	75
247-	23 E 5 S	<5	<.2	1.06	5	8	75	<5	.28	<1	9	26	5	2.68	.17	20	.26	536	<1	.02	7	520	10	<5	<20	28	.12	<10	60	<10	4	53
248-	23 E 5 +50 S	<5	<.2	.77	5	8	45	<5	.34	<1	10	32	5	3.01	.18	40	.39	261	<1	.03	8	510	8	<5	<20	42	.13	<10	78	<10	8	31
249-	23 E 6 S	<5	<.2	1.02	5	8	70	<5	.33	<1	10	31	5	3.44	.20	30	.31	242	<1	.03	6	330	10	5	<20	37	.14	<10	80	<10	7	33
250-	23 E 6 + 5 0	<5	<.2	1.30	<5	8	85	<5	.21	<1	8	19	4	2.08	.14	10	.25	177	<1	.03	5	240	12	<5	<20	29	.12	<10	42	<10	5	36
251-	23 E 7 S	<5	<.2	1.60	<5	8	115	<5	.27	<1	9	15	6	1.81	.17	10	.29	489	<1	.03	7	760	14	<5	<20	32	.12	<10	34	<10	4	76
252-	23 E 7 +50 SSILT	<5	<.2	.77	15	8	60	<5	.51	<1	16	70	10	5.16	.09	40	.72	441	<1	.02	20	880	6	5	<20	44	.17	<10	150	<10	6	53
253-	23 E 7 +50 SSOIL	<5	<.2	2.13	10	8	95	<5	.74	<1	18	48	22	3.88	.31	40	.82	607	<1	.04	22	880	12	5	<20	73	.17	<10	89	<10	18	44
254-	23 E 8 S	<5	<.2	1.68	10	8	110	<5	.41	<1	12	34	9	2.66	.17	10	.51	364	<1	.03	13	1020	10	<5	<20	47	.15	<10	65	<10	5	65
255-	23 E 8 +50 S	<5	<.2	1.87	<5	8	110	<5	.40	<1	11	22	9	2.46	.16	20	.37	343	<1	.03	11	2850	14	5	<20	41	.13	<10	51	<10	5	140
256-	23 E 9 S	<5	<.2	2.07	<5	8	130	<5	.27	<1	9	17	7	2.03	.21	10	.29	447	<1	.03	10	930	16	<5	<20	27	.12	<10	34	<10	5	87
257-	23 E 9 +50 S	<5	<.2	1.76	<5	8	90	<5	.38	<1	8	19	11	1.86	.16	20	.32	253	<1	.03	10	1080	14	<5	<20	35	.11	<10	36	<10	7	51
258-	23 E 10 S	<5	<.2	3.01	15	8	105	<5	.53	<1	22	25	51	4.65	.58	10	.95	603	3	.02	13	530	14	5	<20	31	.23	<10	123	<10	9	97
259-	24 E 0 + 0 0	<5	<.2	2.18	5	8	105	<5	.31	<1	9	15	13	1.87	.13	10	.31	221	<1	.03	12	2080	14	<5	<20	32	.12	<10	31	<10	6	64
260-	24 E 0 +30 N	<5	<.2	1.78	5	8	85	<5	.34	<1	6	8	8	1.15	.10	<10	.18	254	<1	.03	7	1900	12	<5	<20	27	.09	<10	16	<10	6	36
261-	24 E 1 N	<5	<.2	1.79	10	8	125	<5	.27	<1	8	13	9	1.66	.15	<10	.26	380	<1	.03	10	1970	12	<5	<20	25	.10	<10	29	<10	4	81
262-	24 E 2 +50 N	<5	<.2	2.03	5	8	120	<5	.37	<1	9	19	14	2.05	.15	20	.33	205	<1	.03	12	2010	12	<5	<20	46	.11	<10	36	<10	8	49
263-	24 E 3 N	<5	<.2	1.07	10	8	70	<5	.38	<1	9	26	6	2.24	.14	20	.33	216	<1	.03	7	620	8	<5	<20	58	.13	<10	57	<10	7	32

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
264-	24 E 3 +50 N	<5	<.2	1.42	10	8	80	<5	.38	<1	10	34	7	2.88	.13	20	.35	227	<1	.03	9	830	10	<5	<20	56	.14	<10	73	<10	6	40
265-	24 E 4 N	<5	<.2	1.30	10	8	70	<5	.30	<1	8	21	6	2.13	.09	10	.28	194	<1	.02	8	820	10	<5	<20	27	.10	<10	43	<10	4	38
266-	24 E 4 +50 N	<5	<.2	1.68	5	8	95	<5	.34	<1	9	25	7	2.27	.11	10	.33	239	<1	.02	10	720	10	<5	<20	34	.13	<10	46	<10	5	40
267-	24 E 5 N	<5	<.2	2.14	10	8	155	<5	.32	<1	9	17	8	1.91	.12	10	.29	220	<1	.03	12	1660	14	<5	<20	38	.12	<10	32	<10	6	52
268-	24 E 5 +50 N	<5	<.2	1.66	10	8	90	<5	.47	<1	10	32	7	2.96	.17	20	.35	226	<1	.02	11	700	12	<5	<20	59	.15	<10	68	<10	6	48
269-	24 E 6 N	<5	<.2	1.79	10	8	95	<5	.44	<1	12	38	7	3.28	.26	20	.47	261	<1	.04	13	570	12	<5	<20	69	.17	<10	75	<10	7	45
270-	24 E 6 +50 N	<5	<.2	1.92	10	8	65	<5	.31	<1	11	24	11	2.98	.16	10	.47	241	<1	.02	16	840	12	<5	<20	32	.12	<10	60	<10	5	58
271-	24 E 7 N	<5	<.2	2.21	10	8	145	<5	.32	<1	8	15	10	1.72	.11	10	.29	216	<1	.03	11	2180	14	<5	<20	37	.12	<10	29	<10	8	64
272-	24 E 7 +50 N	<5	<.2	1.89	5	8	150	<5	.31	<1	9	13	6	1.90	.09	<10	.27	276	<1	.03	10	1200	12	<5	<20	34	.11	<10	39	<10	4	130
273-	24 E 8 N	<5	<.2	2.28	10	8	165	<5	.46	<1	10	16	7	2.47	.20	30	.36	504	<1	.03	7	700	16	<5	<20	72	.17	<10	56	<10	8	89
274-	24 E 8 +50 N	<5	<.2	2.49	5	8	70	<5	.40	<1	8	23	6	2.06	.21	<10	.28	160	<1	.03	9	560	16	<5	<20	58	.15	<10	37	<10	6	45
275-	24 E 9 N	<5	<.2	1.98	10	8	95	<5	.35	<1	10	25	7	2.39	.22	10	.38	229	<1	.03	8	590	14	<5	<20	61	.17	<10	49	<10	6	52
276-	24 E 9 +50 N	<5	<.2	2.83	10	8	125	<5	.41	<1	11	24	8	2.25	.09	20	.36	246	<1	.03	11	1110	20	<5	<20	66	.17	<10	48	<10	9	81
277-	24 E 10 N	<5	<.2	2.14	10	8	125	<5	.57	<1	10	36	7	2.36	.14	20	.38	423	<1	.04	9	690	14	<5	<20	100	.18	<10	65	<10	9	68
278-	24 E 5 S	<5	<.2	2.05	10	10	115	<5	.28	<1	10	25	8	2.67	.19	<10	.36	299	<1	.03	13	550	12	<5	<20	28	.14	<10	54	<10	4	71
279-	24 E 5 +50 S	<5	<.2	1.42	10	8	75	<5	.25	<1	9	26	7	2.75	.15	10	.31	324	<1	.02	9	680	10	<5	<20	25	.12	<10	59	<10	4	42
280-	24 E 6 S	<5	<.2	.97	15	8	55	<5	.29	<1	10	30	6	3.08	.15	20	.32	290	<1	.02	8	710	6	<5	<20	28	.13	<10	73	<10	5	33
281-	24 E 6 +50 S	<5	<.2	.88	15	8	50	<5	.35	<1	9	32	6	2.99	.16	20	.32	248	<1	.03	7	580	6	<5	<20	43	.12	<10	72	<10	6	30
282-	24 E 7 S	<5	<.2	.76	10	8	65	<5	.35	<1	7	17	3	1.67	.14	10	.22	269	<1	.03	3	220	8	<5	<20	41	.10	<10	40	<10	5	24
283-	24 E 7 +50 S	<5	<.2	1.87	10	8	105	<5	3.05	<1	14	22	21	2.99	.37	30	1.01	586	<1	<0.01	10	1600	8	5	<20	75	.13	<10	73	<10	12	50
284-	24 E 8 +13 S	<5	<.2	1.60	10	10	90	<5	.57	<1	11	24	13	3.00	.29	30	.68	368	<1	.03	9	800	10	5	<20	62	.13	<10	66	<10	11	41
285-	24 E 8 +50 S	<5	<.2	.71	10	8	45	<5	.28	<1	7	22	4	2.40	.15	20	.27	224	<1	.02	6	320	6	<5	<20	32	.11	<10	56	<10	5	28
286-	24 E 9 S	<5	<.2	1.80	10	8	100	<5	4.65	<1	14	19	50	3.02	.43	20	.90	668	2	<0.01	8	1430	10	5	<20	109	.12	<10	74	<10	9	61
287-	24 E 9 +50 S	<5	<.2	1.83	10	10	155	<5	.61	<1	13	27	17	2.81	.42	30	.57	628	<1	.03	11	1240	12	<5	<20	66	.13	<10	54	<10	11	66
288-	24 E 10 S	<5	<.2	1.01	10	8	55	<5	.29	<1	7	17	5	2.01	.13	20	.31	248	<1	.03	8	400	8	<5	<20	34	.10	<10	43	<10	5	36
289-	25 E 0 +20 S	<5	<.2	2.11	5	8	65	<5	.26	<1	7	11	12	1.35	.08	10	.21	135	<1	.03	8	2730	14	<5	<20	26	.10	<10	20	<10	7	33
290-	25 E 1 +10 N	<5	<.2	1.56	<5	8	75	<5	.24	<1	7	11	12	1.38	.13	10	.24	162	<1	.03	9	1540	10	<5	<20	27	.09	<10	22	<10	6	40
291-	25 E 1 +50 N	<5	<.2	1.09	10	8	60	<5	.33	<1	9	25	6	2.46	.10	20	.30	191	<1	.02	7	780	8	<5	<20	31	.10	<10	55	<10	5	33
292-	25 E 2 N	<5	<.2	1.43	10	8	80	<5	.30	<1	8	23	6	2.41	.13	10	.30	202	<1	.02	8	530	10	<5	<20	27	.12	<10	50	<10	4	37
293-	25 E 3 +50 N	<5	<.2	1.30	5	8	85	<5	.28	<1	7	20	6	1.97	.10	10	.28	172	<1	.02	8	620	10	<5	<20	30	.11	<10	40	<10	4	38
294-	25 E 4 N	<5	<.2	2.67	5	8	165	<5	.44	<1	12	23	12	2.77	.17	20	.48	373	<1	.03	14	1390	16	<5	<20	41	.15	<10	53	<10	8	72

ECO-TECH LABORATORIES LTD.   JOHN MURRAY - ETK 91-387

PAGE 10

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
295-	25 E 4 +50 N	<5	<.2	2.34	5	8	160	<5	.33	<1	10	22	11	2.26	.12	10	.35	188	<1	.02	13	1660	14	<5	<20	34	.12	<10	40	<10	5	55
296-	25 E 5 N	<5	<.2	2.55	10	8	145	<5	.41	<1	9	17	9	2.07	.19	10	.36	226	<1	.03	14	960	14	<5	<20	46	.13	<10	35	<10	6	64
297-	25 E 6 +50 N	<5	<.2	1.89	5	10	85	<5	.32	<1	9	19	13	2.19	.15	10	.31	203	<1	.03	10	1110	12	<5	<20	36	.11	<10	40	<10	6	45
298-	25 E 7 N	<5	<.2	2.38	10	8	100	<5	.43	<1	11	29	9	3.12	.19	20	.49	275	<1	.03	14	730	14	<5	<20	44	.15	<10	63	<10	7	52
299-	25 E 7 +50 N	<5	<.2	1.44	15	8	65	<5	.34	<1	10	23	7	3.13	.17	20	.42	250	<1	.02	11	710	10	<5	<20	33	.12	<10	64	<10	4	39
300-	25 E 8 N	<5	<.2	1.67	<5	8	75	<5	.44	<1	8	31	6	1.62	.15	30	.27	159	<1	.04	5	600	14	<5	<20	79	.16	<10	37	<10	12	29
301-	25 E 8 +50 N	<5	<.2	2.52	10	8	135	<5	.49	<1	11	42	8	2.70	.20	20	.44	276	<1	.04	11	520	16	<5	<20	99	.19	<10	66	<10	10	54
302-	25 E 9 N	<5	<.2	1.77	10	8	120	<5	.57	<1	12	51	9	2.72	.20	30	.50	272	<1	.05	11	760	12	<5	<20	114	.18	<10	78	<10	13	52
303-	25 E 9 +50 N	<5	<.2	2.20	5	8	100	<5	.73	<1	12	43	12	2.87	.18	30	.57	316	<1	.05	13	540	14	<5	<20	126	.18	<10	77	<10	16	50
304-	25 E 10 N	<5	<.2	1.68	10	8	125	<5	.57	<1	10	37	7	2.33	.22	20	.36	352	<1	.04	8	420	12	<5	<20	96	.16	<10	60	<10	10	54
305-	26 E 1 N	<5	<.2	1.99	10	8	105	<5	.29	<1	10	21	12	2.25	.13	10	.33	198	<1	.02	14	1000	14	<5	<20	32	.12	<10	40	<10	6	39
306-	26 E 2 N	5	<.2	.88	10	8	60	<5	.34	<1	7	23	5	1.91	.12	10	.26	154	<1	.02	7	720	6	<5	<20	28	.11	<10	43	<10	5	26
307-	26 E 2 +50 N	5	<.2	1.74	10	8	95	<5	.26	<1	10	22	9	2.54	.13	10	.31	203	<1	.03	12	660	12	<5	<20	29	.12	<10	50	<10	4	39
308-	26 E 3 N	5	<.2	1.69	10	8	85	<5	.30	<1	10	21	9	2.46	.11	<10	.32	186	<1	.03	10	660	12	<5	<20	31	.12	<10	50	<10	4	44
309-	26 E 3 +50 N	<5	<.2	2.43	10	8	140	<5	.35	<1	10	18	10	2.05	.15	10	.35	236	<1	.03	15	910	16	<5	<20	35	.13	<10	34	<10	5	61
310-	26 E 4 +50 N	<5	<.2	2.36	10	8	155	<5	.46	<1	10	25	11	2.44	.26	20	.37	388	<1	.03	11	950	14	<5	<20	55	.14	<10	48	<10	7	69
311-	26 E 5 N	<5	<.2	1.48	10	8	120	<5	.42	<1	11	31	8	2.72	.24	30	.42	284	<1	.04	8	490	12	<5	<20	91	.16	<10	74	<10	13	46
312-	26 E 5 +50 N	<5	<.2	2.15	10	8	125	<5	.42	<1	11	39	9	2.53	.19	20	.36	243	<1	.04	10	480	16	<5	<20	74	.19	<10	62	<10	8	48
313-	26 E 6 N	<5	<.2	2.13	5	8	125	<5	.36	<1	9	23	10	2.05	.18	10	.33	212	<1	.03	10	810	14	<5	<20	54	.14	<10	38	<10	6	49
314-	26 E 6 +50 N	<5	<.2	2.33	10	8	145	<5	.36	<1	8	21	8	2.06	.17	10	.31	268	<1	.03	10	790	14	<5	<20	52	.14	<10	37	<10	7	65
315-	26 E 7 N	5	<.2	1.84	10	8	105	<5	.44	<1	11	39	9	2.64	.25	20	.41	315	<1	.04	10	460	12	<5	<20	79	.18	<10	67	<10	12	57
316-	26 E 7 +50 N	<5	<.2	1.95	10	8	90	<5	.41	<1	10	27	7	2.49	.22	20	.41	274	<1	.03	11	540	12	<5	<20	57	.14	<10	50	<10	6	53
317-	26 E 8 N	5	<.2	3.46	5	8	220	<5	.61	<1	13	22	9	2.63	.27	20	.52	292	<1	.04	9	580	24	<5	<20	117	.22	<10	47	<10	11	53
318-	26 E 8 +50 N	<5	<.2	1.32	10	8	85	<5	.46	<1	9	44	6	2.28	.16	20	.31	236	<1	.05	8	450	10	<5	<20	113	.18	<10	68	<10	10	37
319-	26 E 9 N	<5	<.2	3.90	10	8	180	<5	.58	<1	17	45	12	3.26	.19	50	.62	1138	<1	.02	14	1200	24	<5	<20	107	.20	<10	80	<10	21	77
320-	26 E 9 +50 N	5	<.2	3.35	<5	8	125	<5	.52	<1	15	51	11	3.27	.20	40	.67	408	<1	.03	18	620	18	<5	<20	110	.20	<10	81	<10	16	56
321-	26 E 10 N	5	<.2	3.34	10	8	145	<5	.46	<1	12	40	11	2.70	.15	30	.53	199	<1	.04	16	740	18	<5	<20	94	.19	<10	61	<10	11	51
322-	27 E 0 +50 N	5	<.2	1.01	10	8	65	<5	.33	<1	9	25	6	2.15	.12	20	.29	173	<1	.02	8	690	8	<5	<20	36	.11	<10	49	<10	6	28
323-	27 E 1 N	5	<.2	1.18	10	8	60	<5	.29	<1	8	24	6	2.12	.08	10	.28	157	<1	.02	9	1020	8	<5	<20	24	.10	<10	47	<10	4	34
324-	27 E 1 +50 N	5	<.2	1.32	10	10	75	<5	.32	<1	9	25	6	2.43	.12	10	.32	228	<1	.02	9	830	10	<5	<20	25	.10	<10	53	<10	4	39
325-	27 E 2 +50 N	<5	<.2	1.62	15	8	90	<5	.40	<1	11	27	8	3.60	.19	20	.40	392	<1	.02	12	780	10	<5	<20	37	.13	<10	76	<10	6	47
326-	27 E 4 +20 N	<5	<.2	1.84	10	8	135	<5	.38	<1	9	26	8	2.16	.21	10	.31	421	<1	.03	10	660	12	<5	<20	58	.14	<10	46	<10	7	56
327-	27 E 4 +50 N	<5	<.2	1.51	10	8	110	<5	.42	<1	10	40	7	2.59	.16	20	.33	246	<1	.04	9	640	12	<5	<20	77	.18	<10	69	<10	8	43
328-	27 E 5 N	<5	<.2	1.98	10	10	155	<5	.32	<1	8	22	7	1.74	.16	10	.28	378	<1	.04	11	1530	14	<5	<20	57	.13	<10	34	<10	6	82
329-	27 E 5 +50 N	<5	<.2	1.42	10	8	130	<5	.45	<1	9	33	5	2.16	.15	20	.32	218	<1	.04	6	590	12	<5	<20	103	.15	<10	60	<10	7	48
330-	27 E 6 N	<5	<.2	1.75	10	8	125	<5	.53	<1	11	36	7	2.65	.27	40	.49	266	<1	.03	9	490	12	<5	<20	118	.15	<10	67	<10	17	45
331-	27 E 6 +50 N	<5	<.2	1.39	10	8	135	<5	.43	<1	11	52	7	2.50	.29	20	.43	281	<1	.03	7	520	10	<5	<20	66	.16	<10	57	<10	8	40

ECO-TECH LABORATORIES LTD. **JOHN MURRAY - ETK 91-387**

PAGE 11

ET#	DESCRIPTION	AU (ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
332-	27 E 7 N ✓	<5	<.2	1.61	10	8	120	<5	.47	<1	12	45	9	2.65	.31	30	.46	319	<1	.03	8	420	12	<5	<20	62	.16	<10	57	<10	11	45
333-	27 E 7 +50 N ✓	<5	<.2	3.06	<5	10	90	<5	.40	<1	13	47	9	2.63	.14	20	.57	253	<1	.03	16	820	18	<5	<20	52	.21	<10	60	<10	9	54
334-	27 E 8 N ✓	<5	<.2	3.89	5	8	255	<5	.48	<1	14	40	12	3.07	.25	40	.70	273	<1	.05	14	590	24	<5	<20	163	.26	<10	71	<10	18	59
335-	27 E 8 +50 N ✓	<5	<.2	2.72	10	8	225	<5	.69	<1	13	52	7	3.12	.23	30	.72	394	<1	.02	10	2660	20	<5	<20	80	.18	<10	73	<10	10	64
336-	27 E 9 N ✓	<5	<.2	3.57	5	10	265	<5	.49	<1	13	17	10	2.74	.22	30	.40	415	<1	.04	9	510	20	<5	<20	112	.24	<10	56	<10	13	56
337-	27 E 9 +50 N ✓	<5	<.2	4.16	<5	8	155	<5	.46	<1	13	28	13	2.64	.10	20	.46	382	<1	.02	13	1710	22	<5	<20	58	.20	<10	56	<10	11	60
338-	27 E 10 N ✓	<5	<.2	3.21	5	8	100	<5	.40	<1	12	37	9	2.62	.14	10	.46	208	<1	.03	13	820	18	<5	<20	84	.19	<10	61	<10	8	44
339-	28 E 0 + 0 0	<5	<.2	1.30	10	8	70	<5	.31	<1	8	23	5	2.10	.14	10	.29	216	<1	.02	7	520	10	<5	<20	38	.13	<10	48	<10	4	38
340-	28 E 0 +50 N	<5	<.2	1.69	5	8	100	<5	.33	<1	9	23	9	2.25	.16	10	.31	166	<1	.02	11	950	12	<5	<20	35	.12	<10	44	<10	5	40
341-	28 E 1 N	<5	<.2	2.10	5	8	100	<5	.33	<1	10	26	8	2.46	.17	10	.34	192	<1	.03	11	650	12	<5	<20	45	.14	<10	49	<10	6	42
342-	28 E 1 +50 N	<5	<.2	2.17	10	10	110	<5	.30	<1	10	24	8	2.70	.14	10	.35	460	<1	.03	13	1000	14	<5	<20	34	.13	<10	54	<10	4	81
343-	28 E 2 N	<5	<.2	2.56	<5	8	130	<5	.33	<1	10	18	13	2.19	.13	20	.35	251	<1	.03	14	1850	8	<5	<20	37	.13	<10	38	<10	8	50
344-	28 E 2 +50 N	5	<.2	1.76	5	8	90	<5	.33	<1	10	28	7	3.00	.15	10	.33	195	<1	.02	9	660	4	<5	<20	41	.13	<10	64	<10	4	35
345-	28 E 3 N	<5	<.2	1.40	<5	6	95	<5	.36	<1	10	33	7	2.79	.16	20	.33	217	<1	.03	8	640	4	<5	<20	62	.15	<10	70	<10	6	34
346-	28 E 3 +50 N	5	<.2	1.60	<5	8	105	<5	.38	<1	9	29	8	2.49	.17	20	.35	195	<1	.03	9	770	2	<5	<20	60	.14	<10	60	<10	7	32
347-	28 E 4 N	5	<.2	1.64	<5	6	110	<5	.47	<1	10	40	8	2.48	.20	30	.53	234	<1	.04	9	780	4	<5	<20	103	.16	<10	69	<10	13	36
348-	28 E 4 +50 N	10	<.2	1.24	<5	8	115	<5	.61	<1	10	42	7	2.36	.19	30	.45	333	<1	.05	8	900	2	<5	<20	131	.15	<10	74	<10	11	45
349-	28 E 5 N	5	<.2	1.72	<5	6	105	<5	.47	<1	9	35	7	2.10	.16	20	.38	172	<1	.04	9	520	2	<5	<20	101	.15	<10	56	<10	8	32
350-	28 E 5 +50 N	<5	<.2	1.65	<5	8	115	<5	.87	<1	10	43	9	2.52	.22	30	.54	295	<1	.03	12	580	<2	<5	<20	148	.14	<10	66	<10	17	37
351-	28 E 6 N	5	<.2	1.92	<5	6	115	<5	.35	<1	10	34	8	2.57	.18	10	.40	203	<1	.03	9	720	4	<5	<20	59	.15	<10	60	<10	5	36
352-	28 E 6 +50 N	<5	<.2	1.95	<5	8	310	<5	.38	<1	10	10	7	2.20	.34	40	.48	182	<1	.05	3	450	4	<5	<20	81	.21	<10	49	<10	12	37
353-	28 E 7 N	5	<.2	3.23	<5	10	190	<5	.72	<1	10	18	12	2.68	.25	40	.48	400	<1	.03	6	450	4	<5	<20	126	.17	<10	52	<10	24	72
354-	28 E 7 +50 N	5	<.2	2.21	<5	8	310	<5	.47	<1	13	16	7	2.72	.37	50	.48	370	<1	.05	3	340	8	<5	<20	111	.25	<10	70	<10	21	50
355-	28 E 8 N	5	<.2	3.50	<5	8	195	<5	.57	<1	12	21	9	2.70	.26	40	.50	244	<1	.04	8	500	8	<5	<20	120	.20	<10	53	<10	21	48
356-	28 E 8 +50 N	<5	<.2	2.65	<5	8	125	<5	.47	<1	12	46	8	2.80	.20	20	.51	351	<1	.03	11	850	4	<5	<20	90	.19	<10	76	<10	8	51
357-	28 E 9 N	10	<.2	1.53	<5	8	85	<5	.47	<1	10	50	7	2.47	.16	20	.36	303	<1	.04	10	900	4	<5	<20	97	.16	<10	83	<10	7	51
358-	28 E 9 +50 N	<5	<.2	1.98	<5	8	105	<5	.45	<1	10	57	8	2.45	.20	10	.49	254	<1	.04	10	550	4	<5	<20	95	.17	<10	65	<10	7	45
359-	28 E 10 N	<5	<.2	1.97	<5	8	95	<5	.40	<1	9	29	6	2.20	.15	20	.37	217	<1	.03	8	550	4	<5	<20	75	.15	<10	52	<10	9	53

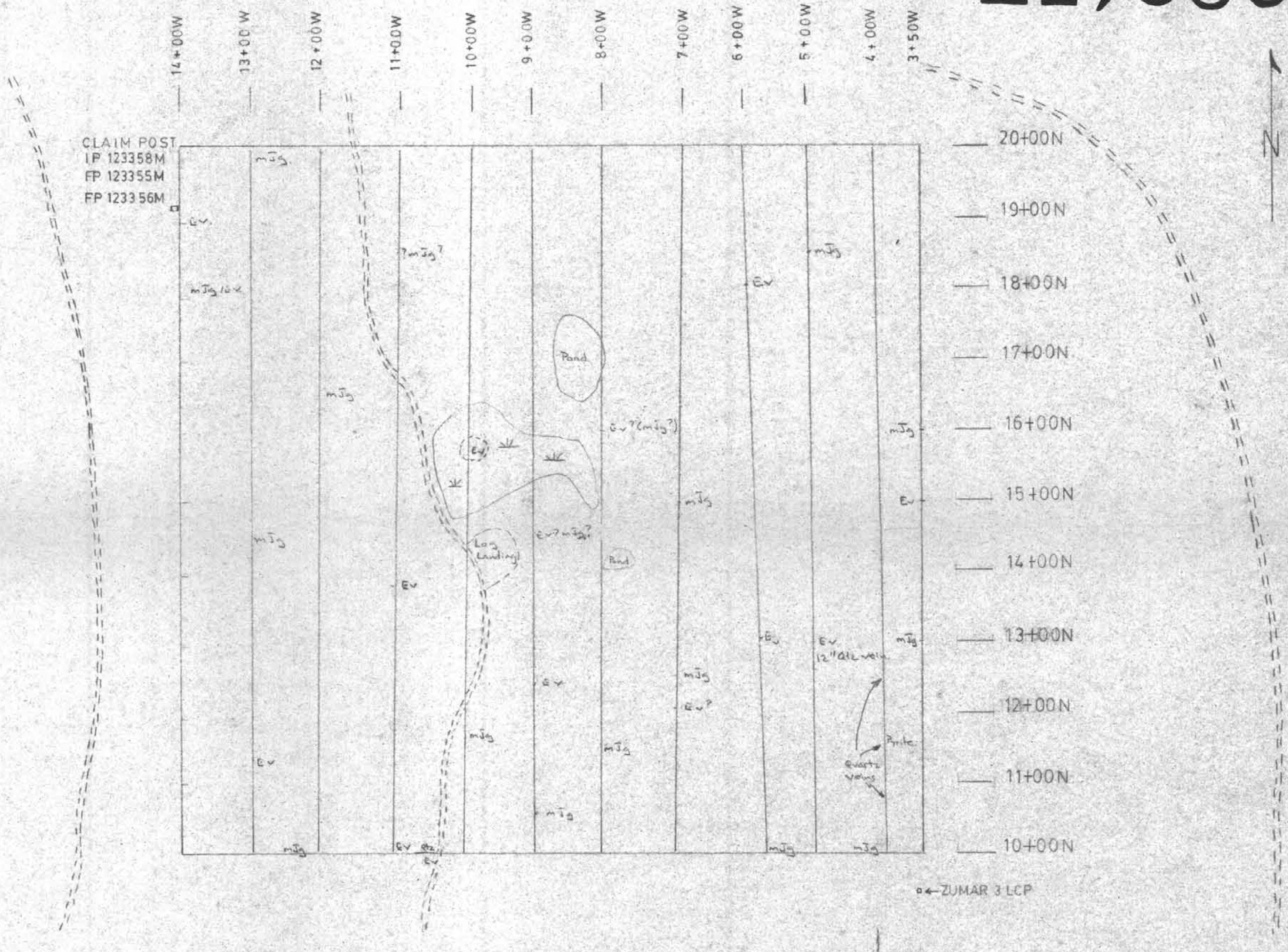
NOTE: < = LESS THAN

SC91/K2

ECO-TECH LABORATORIES LTD.
CLINTON AYERS
LABORATORY MANAGER

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,600



LEGEND

Ev - EOCENE VOLCANICS

mJg - NELSON PLUTONICS

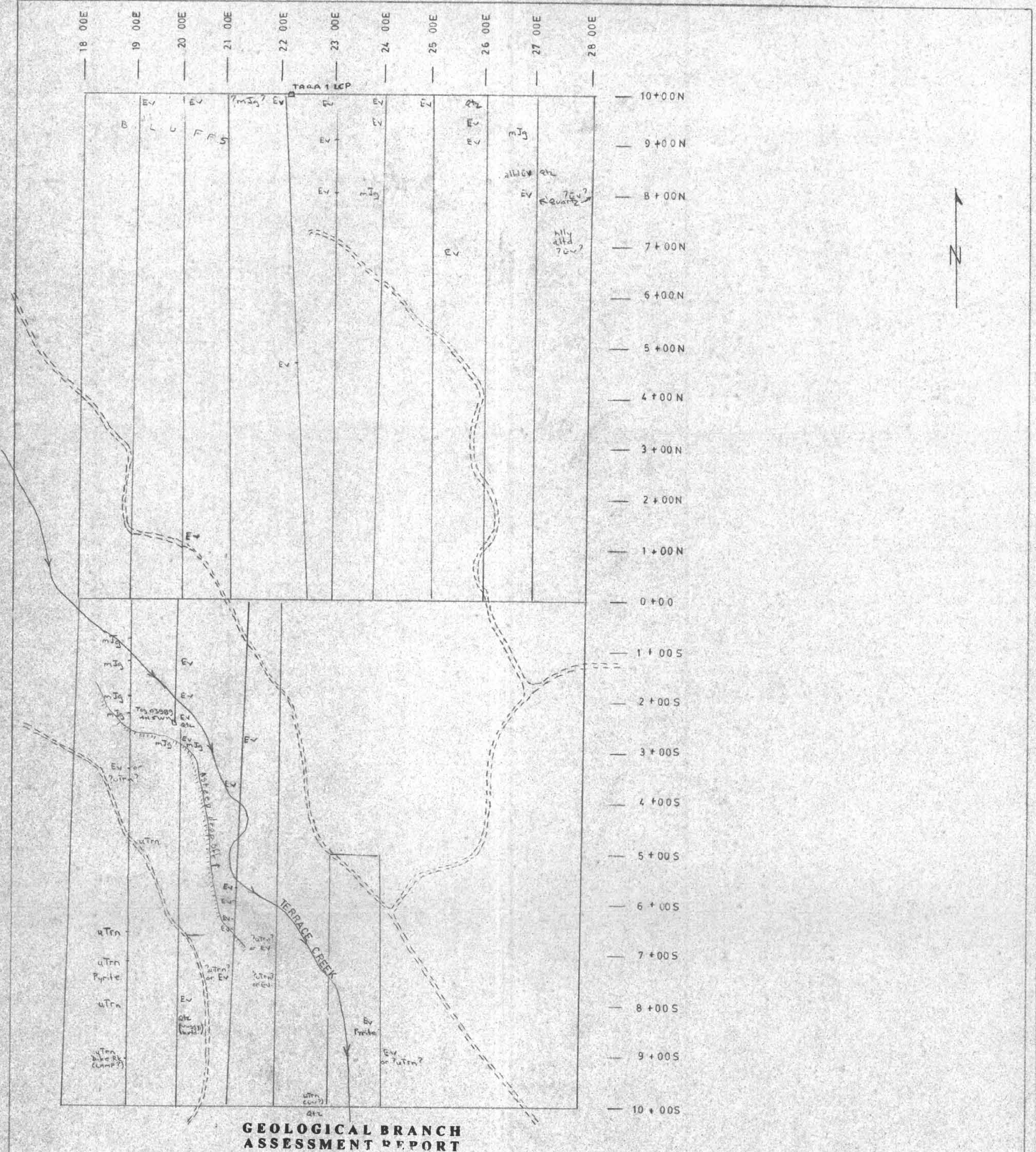
AMARADO RESOURCES LTD.

ZUMAR PROPERTY

Z-1 GRID ZUMAR 3 CLAIM

SCALE 1:5000

NTS 82L/4E	DATE:1991-07-25	DRN BY J.MURRAY	FIG. 5



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,600

LEGEND

Ev EOCENE VOLCANICS

mJg NELSON PLUTONICS

uTrn UPPER TRIASSIC NICOLA GROUP

AMARADO RESOURCES LTD.

ZUMAR PROPERTY

Z-2 GRID ZUMAR GOLD CLAIM

SCALE 1:5000

NTS 82L/4E	DATE: 1991-07-25	DRN BY J.MURRAY	FIG. 6

8+00W
7+00W
6+00W
5+00W
4+00W
3+00W
2+00W
1+00W
0+00
1+00E
2+00E
3+00E
4+00E
5+00E
6+00E
7+00E
8+00E
2+00N
0+00
2+00S
4+00S
6+00S
road location approx.
granitic float
altd mJg
volcanic float
volcanic float
rusty frtd Ev
filled trench
Ev
granitic float
altd Ev
mJg
SP LINE
road location approx.
ZUMAR 2
ZUMAR 4
N
SCALE 1:1250
Qtz
LEGEND
Ev EOCENE VOLCANICS
mJg NELSON PLUTONICS
GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,600
AMARADO RESOURCES LTD.
ZUMAR PROPERTY
ZUMAR 2, 4 CLAIMS
PROSPECTING and GEOPHYSICAL RESULTS
SCALE 1:2000
NTS 82L/4E
DATE 1991-07-25
DRN. BY J. MURRAY
FIG. 7