

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.03.16

ASSESSMENT REPORT 17478

MINING DIVISION: Omineca

PROPERTY: Delsanto  
LOCATION: LAT 54 39 00 LONG 126 42 00  
UTM 09 6058059 648397  
NTS 093L10E

CLAIM(S): Delsanto 1-2, Del 2-4, Burn 7

OPERATOR(S): Can. United Min.

AUTHOR(S): Holland, R.

REPORT YEAR: 1988, 52 Pages

COMMODITIES

SEARCHED FOR: Silver, Zinc, Copper

GEOLOGICAL

SUMMARY: Hazelton Group tuffs and related calcareous sedimentary rocks are intruded by diorite, resulting in deposits of hornfels, skarn and related stratabound pyrite-pyrrhotite-chalcopyrite-sphalerite mineralization.

WORK

DONE: Geological, Geochemical  
GEOL 25.0 ha  
ROCK 37 sample(s) ; CU, PB, ZN, AG, AS  
SOIL 140 sample(s) ; CU, PB, ZN, AG, AS  
Map(s) - 1; Scale(s) - 1:5000  
TREN 220.0 m 12 trench(es)

MINFILE: 093L 025

LOG NO. 1108	RD. 2
ACTION: Date received reports back from amendments	
FILE NO.	

LOG NO: 0617	RD.
ACTION:	
FILE NO:	

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**17,478**

Geological, Geochemical and Trenching  
Report on the  
Delsanto Claim Group

for



Canadian-United Minerals, Inc.  
325 - 1130 West Pender Street  
Vancouver, B.C.

NTS 93L/10E

Omineca Mining Division

Latitude 54° 44'N

Longitude 126° 41'W

June 15, 1988

Robert Holland B.Sc. F.G.A.C.  
CUN Management Group Inc.

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# DEL SANTO CLAIM BLOCK



FIGURE 1

## SUMMARY

The Delsanto claim group, located near Deep Creek in the Smithers, B.C. area, is held under option by Canadian-United Minerals, Inc. Work in 1987 included backhoe trenching and sampling of the Delsanto showing, and geochemical follow up and evaluation of previously obtained soil anomalies.

Geological mapping of the Delsanto showing indicates that mineralization is strata bound within sheared, calcareous sediments intruded by an altered diorite or granite sill. The presence of strong manganese alteration and abundant hornfels and skarn mineralogy suggest that mineralization is skarn related. The mineralized horizon was traced on surface for 170 meters but grades were low overall with scattered higher grade sections concentrated in the central portion. The best intersection obtained was 1.4 meters grading approximately 2.9% copper, 3.3% zinc and 307g/ton silver. Previous diamond drilling underneath this zone, however, failed to intersect significant economic sulfides. No further work is recommended on the Delsanto showing at this time, however, some prospecting is suggested to locate a second reported zone nearby.

Follow up soil sampling of previous soil anomalies outlined at least two significant, untested soil anomalies with values to 6252 ppm copper, 4378 ppm zinc, 9.0 ppm silver and 170 ppm lead. One of these was also associated with pyritic and sericitic alteration. A third anomaly was not adequately tested by follow up work. Future work should include expanding the grid soil coverage on all of these zones plus hand and backhoe trenching on at least the first two.

## INTRODUCTION

In 1987, Canadian-United Minerals, Inc., optioned from Silver Tusk Mines Ltd., claims in the Deep Creek area totalling 144 units. The western 72 units of these claims are referred to in

this report as the Delsanto claim group. Work on the Delsanto group in 1987 included backhoe trenching and sampling of the main Delsanto showing, re-evaluation and logging of previously undocumented drill core, and follow up soil geochemistry and prospecting of previously outlined peripheral soil anomalies. This work was carried out under the direct supervision of the author and results are the subject of this report.

#### LOCATION, ACCESS AND PHYSIOGRAPHY

The Delsanto property is located near the head of Deep Creek, approximately 33 kilometers east southeast of the town of Smithers in north central British Columbia. More precisely, the centre of the claims is at 54° 44'N. latitude, 126° 41'W longitude.

Access to the property is via Kerr road which turns east off Highway 16 at the farming centre of Quick. An unnamed, four wheel drive road extends northeast from the end of Kerr road, 9 kilometers through the claims to the Delsanto showing. This road crosses private farm land and is controlled by a locked gate near its origin. A gate key can be obtained from Gordon Kerr who lives on Kerr road nearby. In addition, helicopter access is available by charter from Smithers.

Topography is predominately hilly with moderate slopes and numerous rocky knolls. Flat areas tend to be marshy and several small streams drain the property. Elevations range from 1000 to 1460 meters. Forest cover is thick, consisting mainly of balsam fir, spruce and lesser pine. Alder, willow and buck brush are also common in wetter area.

Supplies and services are readily available from Smithers which is a major centre for the region with good road and rail access and daily airline flights from Vancouver.

#### CLAIM STATUS

The Delsanto claim group is comprised of the following contiguous claims located within the Omineca Mining Division.

<u>Claim</u>	<u>Record #</u>	<u>Units</u>	<u>Expiry Date</u>
Burn 4	6948	20	April 3, 1989
Burn 5	6949	20	April 3, 1989
Burn 6	6950	12	April 3, 1989
Burn 7	6951	12	April 3, 1989
Del 1-4	8029-32	4	Oct, 21 1989
Delsanto 1-2	47874-5	2	Mar, 20 1989

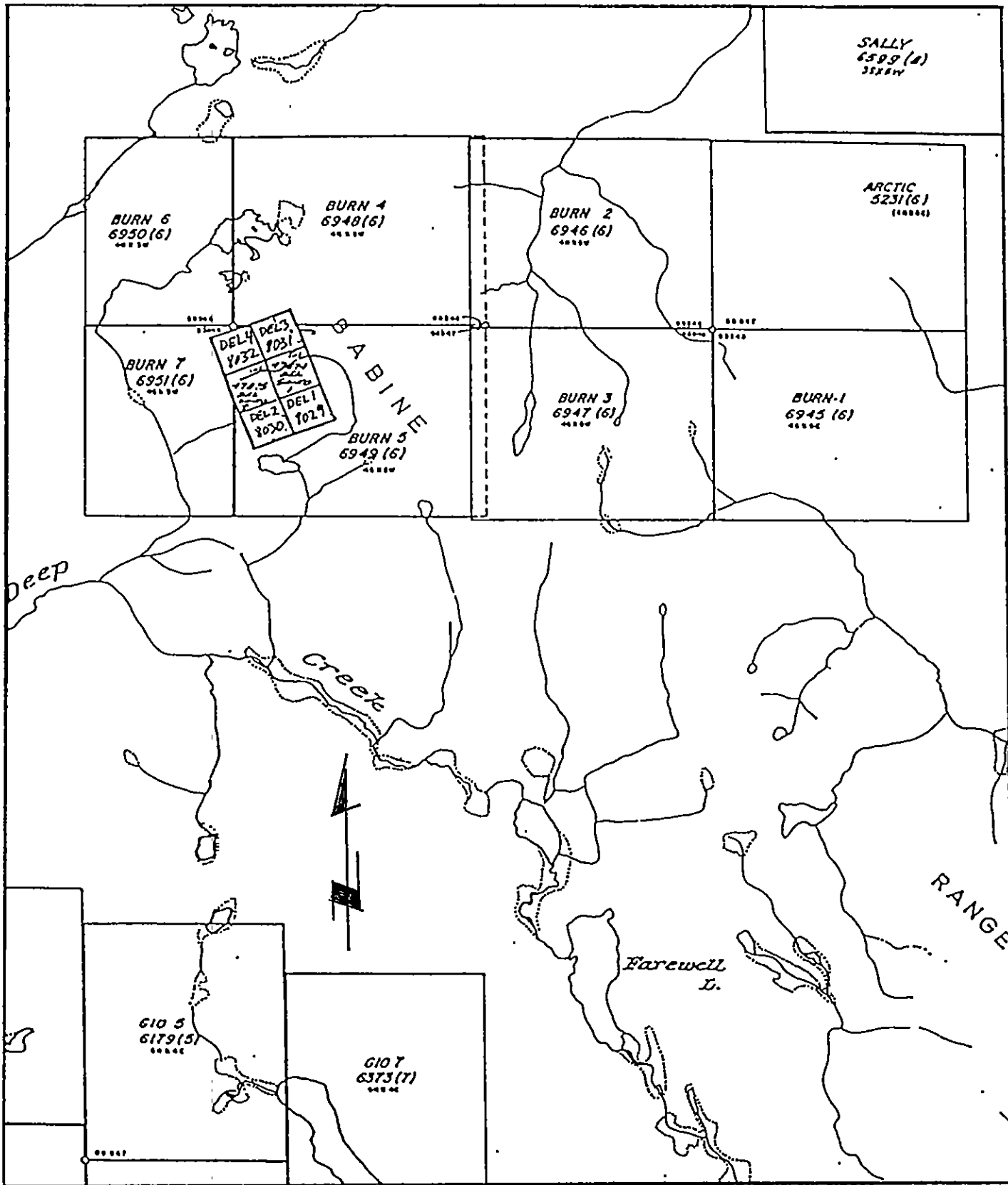
### HISTORY

The first recorded activity in the Delsanto area is in 1914 when "a number of claims" were staked over "quartz veins carrying iron pyrites and arsenopyrites with fair values in gold". Further investigations were conducted during 1928/29 on at least two 6.2-12.4 meter wide sheared and mineralized zones (Delsanto showing). This work included several open cuts and a short adit. Values in silver, copper and zinc were reported over lengths of up to 150 meters.

More recently, the area was restaked by M. Chapman and F. Madigan during the 1960's and optioned to several companies as porphyry copper prospects. In 1967/68 Texas Gulf carried out geological mapping and limited magnetometer and E.M. work. Falconbridge Nickel conducted further, more detailed geological mapping and geophysics, as well as linecutting, soil geochemistry and trenching during 1969. This was followed up with 3 very short diamond drill holes in 1970, the results of which not are available.

Trenching was also carried out by Union Miniere (Umex) in 1976 and further mapping and geophysics were done by Petra Gem Explorations in 1978. The most recent work done on the property was conducted by D. Groot Logging Ltd. in 1982 and consisted of further trenching, road construction and repair, and drilling of four diamond drill holes under the main showing. This latter work is undocumented and was unknown to Canadian-United Minerals, Inc. prior to commencement of the 1987 program.

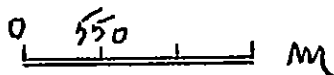




CLAIM MAP  
NTS 93/L 10 E

SCALE 1:55,000

FIGURE 2



## GENERAL GEOLOGY

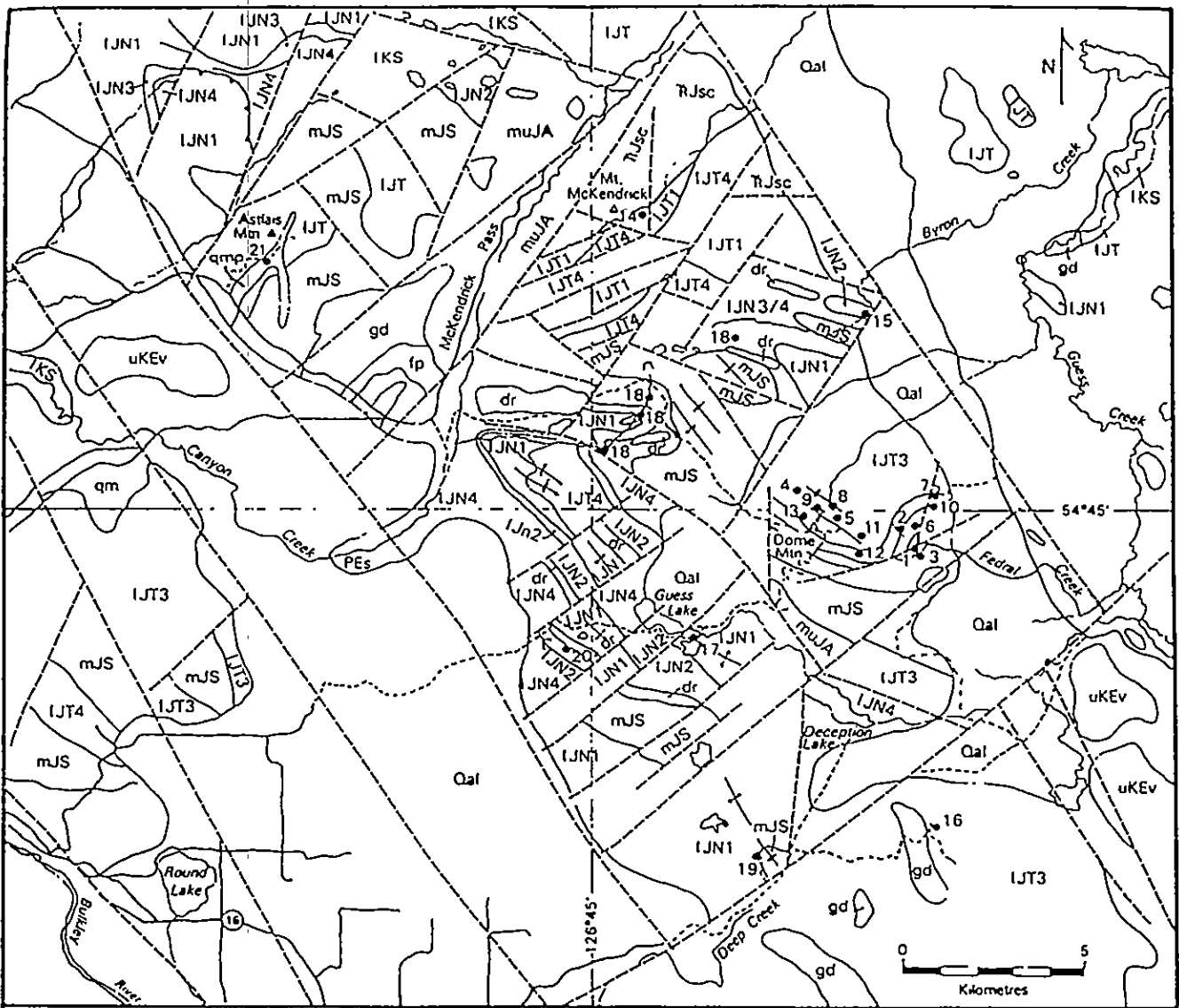
The claims area is underlain by subaerial to submarine volcanic, volcanoclastic and sedimentary rocks of the Hazelton Group. MacIntyre (1985) states that the Hazelton Group is an island-arc assemblage deposited in the northwest trending Hazelton Trough between Early to Middle Jurassic time. Tipper and Richards divided the Hazelton Group into three formations in the Smithers area. These three, from oldest to youngest, are the Telkwa Formation, the Nilkitkwa Formation and the Smithers Formation.

The Telkwa Formation is the thickest and most extensive formation of the Hazelton Group. It is a mix of subaerial and submarine pyroclastics and flows with minor sedimentary intercalations.. On Dome Mountain, just north of Delsanto, the Telkwa Formation is predominately maroon, coarse grained agglomerate and tuff breccia.

Overlying the Telkwa Formation conformably to disconformably is the Nilkitkwa Formation. This unit is a mix of pyroclastic, flow and marine sedimentary rocks. The basal portion is well bedded, brick red, fine grained tuffs which give way up section to a series of amygduloidal, andesitic flows. Both of these units are very distinctive. Above this basal volcanic sequence the Nilkitkwa Formation grades into marine sedimentary rocks which range from granule and pebble conglomerate to argillites and siltstones with minor limestone layers.

The Smithers Formation disconformably overlies the Nilkitkwa Formation. It consists of fossiliferous sandstone and siltstone with lesser intercalated felsic tuff. Smithers Formation is not known to occur in the Delsanto area.

Several small elongated plugs or dykes of fine to medium grained diorite or diabase intrude the Hazelton Group rocks in the area. These mafic intrusives are probably Jurassic in age and therefore related to the Topley Intrusions. Quartz monzonite dykes also occur in the area.



LEGEND		MINERAL OCCURRENCES		
QUATERNARY		Type	Occurrence Name	Commodity
Qal	alluvium	1 Oz Vein	Dome Mtn. - Forks	Au, Ag, Zn, Pb, Cu, (As, Sb)
PALEOCENE TO EOCENE		2 Oz Vein	Dome Mtn. - Cabin	Au, Ag, Zn, Pb, Cu, (As, Sb)
PEs	mudstone, siltstone	3 Oz Vein	Dome Mtn. - 9800	Au, Ag, Zn, Pb, Cu, (As, Sb)
LATE CRETACEOUS TO TERTIARY		4 Oz Vein	Dome Mtn. - Ptarmigan	Au, Ag, As, Zn, Pb, Cu
uKEv	andesitic volcanic rocks	5 Oz Vein	Dome Mtn. - Hawk	Au, Ag, As, Zn, Pb, Cu
EARLY CRETACEOUS - SKEENA GROUP		6 Oz Vein	Dome Mtn. - Boulder	Au, Ag, Zn, Pb, Cu
IKS	RED ROSE FORMATION micaceous shale, siltstone conglomerate, mudstone	7 Oz Vein	Dome Mtn. - Free Gold	Au, Ag, Zn, Pb, Cu
LATE JURASSIC		8 Oz Vein	Dome Mtn. - Eagle	Au, Ag, Zn, Pb, Cu
muJA	BOWSER LAKE GROUP ASHMAN FORMATION argillite, shaly siltstone turbidites	9 Oz Vein	Dome Mtn. - Gem	Au, Ag, Zn, Cu, Pb
EARLY TO MIDDLE JURASSIC		10 Oz Vein	Dome Mtn. - Chance	Au, Ag, Cu, Zn, Pb
mJS	HAZELTON GROUP SMITHERS FORMATION siliceous shale, siltstone conglomerate	11 Oz Vein	Dome Mtn. - Hoopes	Au, Ag, Cu, Pb, Zn
IJN4	NUKITKWA FORMATION thin bedded argillite, chert and limestone	12 Oz Vein	Dome Mtn. - Jane	Au, Ag, Cu, (Zn, Pb, Ba)
IJN3	siliceous conglomerate, siltstone cherty silt	13 Oz Vein	Dome Mtn. - Raven	Au, Ag, Cu
IJN2	rhyolitic volcanic rocks	14 Oz Vein	Mt. McKendrick	Au, Ag, Pb, Zn, Cu, (As, Sb)
IJN1	red opacities, amygdaloidal flow related lapilli tuff	15 Cu Vein	Tina	Cu, Ag
IJT4	TELKWA FORMATION phyllic margin tuff	16 Cu Vein	Brenda, Tony, BW	Cu, Ag
IJT3	fragmental volcanic rocks	17 Cu Vein	Camp Lake	Cu, Ag
IJT2	porphyritic andesite	18 Massive	Ascot	Zn, Pb, Ba
IJT1	poly-mictic conglomerate, opacitic rocks	19 Massive	Del Santo	Cu, Zn, Ag
rJsc	greenstone - sill complex	20 Porph	Burbridge Lake	Cu, Mo
dr	dikes	21 Porph	Big Onion	Cu, Mo
gd	granodiorite			
qmp	quartz monzonite porphyry			
fp	felsic porphyry			
qp	quartz porphyry			

REGIONAL GEOLOGY  
(From D.G. MacIntyre, 1986)

Figure 3

## PROPERTY GEOLOGY

The property area is underlain predominantly by fine grained, green to maroon colored andesite flows and tuffs of the Nilkitkwa formation. To the east of the Delsanto showing area, these are interfingered with fine grained, light green to grey latites in an apparent facies change. Interbedded with the andesites are several bands of argillaceous and calcareous sediments. Bedding of the sediments strikes predominantly north-south with steep dips. Faulting is common both crosscutting and conformable to stratigraphy and some evidence of folding also occurs.

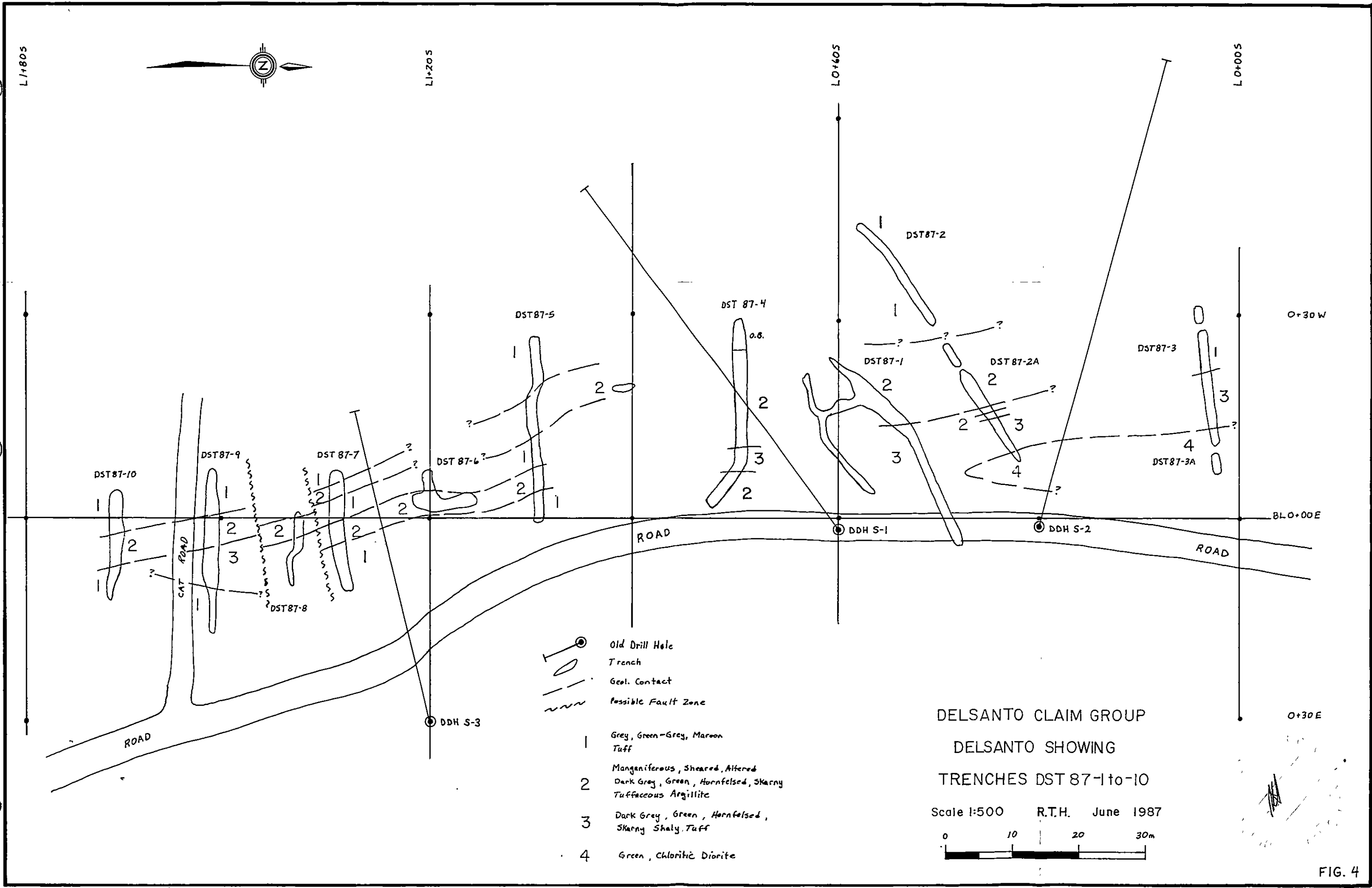
The Nilkitkwa rocks are intruded by several biotite-feldspar porphyry dykes and by a stock of similar composition which is exposed southeast of the main showing. Strong hornfelsing and skarnification are common in the sediments adjacent to these intrusive rocks.

### Delsanto Showing

Geological investigations in 1987 were largely restricted to the Delsanto showing trench area and the interpretation of this work is shown in figure 4. Four lithological units were recognized in this area as summarized below. These rock types are labelled 1 to 4 in the accompanying trench sketches and no attempt has been made to relate these to previous geological studies.

- a) Unit 1 Fine grained, massive, green to green-grey to maroon, andesitic tuff.
- b) Unit 2 Rusty, manganiferous, dark grey to black to green, often strongly sheared, variably calcareous, hornfelsed and skarny, tuffaceous argillite.
- c) Unit 3 Dark grey to green, massive to bedded, variably calcareous, hornfelsed and skarny argillaceous tuff.
- d) Unit 4 Fine grained, massive, green, chlorite altered diorite.

As shown in figure 4, the showing area is underlain mainly by unit 1 tuffs with a predominant central interbed of unit 2 and 3 sediments. Bedding and shear planes are commonly at 160 - 180° dipping 70 - 90°E with local small folds. The sedimentary sequence narrows to the south and appears to be interfingered



L11805

L1+205

L0+605

L0+005



DST87-10

DST87-9

DST 87-7

DST 87-6?

DST87-5

DST 87-4

DST87-2

DST87-3

DST87-3A

O+30W

BLO+00E

O+30E

CAT ROAD

ROAD

ROAD

ROAD

DDH S-3

DDH S-1

DDH S-2

- Old Drill Hole
- Trench
- Geol. Contact
- Possible Fault Zone

- 1 Grey, Green-Grey, Maroon Tuff
- 2 Manganiferous, Sheared, Altered Dark Grey, Green, Hornfelsed, Skarny Tuffaceous Argillite
- 3 Dark Grey, Green, Hornfelsed, Skarny Shaly Tuff
- 4 Green, Chloritic Diorite

DELSANTO CLAIM GROUP  
 DELSANTO SHOWING  
 TRENCHES DST 87-1 to -10

Scale 1:500 R.T.H. June 1987

FIG. 4

with the tuff in this area. To the south and north, the sediments are strongly sheared and recessive weathering suggesting a possible major fault zone. In the north, the sediments widen sharply and are intruded by sill of strong propylitically altered intrusive (unit 4). This body has been termed diorite based largely on the high mafic content, but may also be an altered form of the granite.

Unit 2 and 3 rocks are similar in nature and are distinguished primarily by the higher skarn content of unit 3 and the strong limonite-manganese alteration, and increased shearing of unit 2. Unit 2 is also the primary host of sulfide mineralization in this area. Hornfelsing and skarn alteration are related to the diorite and decrease noticeably to the south. As can be expected, unit 3 rocks are most common in the north, adjacent to this diorite.

#### TRENCHING

In June 1987, a program of backhoe trenching was initiated to further evaluate mineralization exposed at the main Delsanto showing. Several existing trenches were cleared out and extended, and seven new trenches were excavated to test the zone over some 170 meters of strike length. Work was conducted using a John Deere skidder with a backhoe, owned and operated by Joe Hidber of Telkwa, B.C. The trenches were mapped in detail at a scale of 1:100 and sampled where appropriate. Detailed trench maps (figures 5 - 10) are included in Appendix 1 of this report. Sample results are discussed under Mineralization.

#### MINERALIZATION

Mineralization is largely stratabound and contained within conformable beds or seams of unit 2 rocks. It consists of strong manganese and limonite flooding, with disseminations and lesser stringers and massive bands of pyrite, pyrrhotite and locally important sphalerite and chalcopyrite. The strongest mineralization occurs in the central part of the showing area,

primarily in trenches DST87-1,4,5, and 6. Previous chip sampling reported grades up to 7% copper, 2.5% zinc and 15 oz/ton silver across mineralized bands 1 to 2 meters wide. This mineralization was reported over a length of some 100 meters and a section width of up to 15 meters.

Sampling and mapping in 1987 showed some good grade mineralization, however, results were discontinuous and erratic. The best results were from trench DST87-4 where a 1.4 meter chip sample ran 28,850 ppm copper (~2.9%), 33,000 ppm zinc (~3.3%) and 307.3 ppm silver (~9.0 oz./ton). A separate 1.0 meter sample from the same trench ran 31,200 ppm copper (~3.1%), 8,625 ppm zinc (~0.9%) and 146.0 ppm silver (~4.3 oz./ton). Only weak mineralization and lower grades were encountered outside the central zone, along strike to the north and south. However, the alteration and host horizon do appear to be quite strong in these areas. In addition, testing to the north (trenches DST87-2, 2A, 3, 3A) was severely hampered by deepening overburden.

Old reports indicate a second zone lies in a nearby creek and was previously tested in 1928 by a series of open cuts and a short adit. No further record of this zone was found and preliminary prospecting failed to find any trace.

#### DIAMOND DRILLING

Subsequent to trenching, it was learned that four diamond drill holes had been drilled under the trenches by a previous operator. No documentation or results of this work were found and the work was never filed for assessment. However, we did manage to locate the core and hole locations as summarized below and a brief examination of this core was made.

<u>Hole #</u>	<u>Depth</u>	<u>Direction</u>	<u>Dip</u>	<u>Location</u>
S-1	107.3m	234°	N/A	0+60S 0+02E
S-2	108.5m	285°	N/A	0+30S 0+02E
S-3	78.0m	255°	N/A	1+20S 0+30E
S-4	74.7m	255°	N/A	1+80S 0+78E

This drilling intersected similar tuffs, sediments and diorite as exposed in the trenches but lacked the strong manganese alteration and sulfide content. Only hole S-1 intersected significant sulfides, this being 46 cm of 5-20% pyrite and pyrrhotite/magnetite. No economic sulfides were noted.

#### FOLLOW UP SOIL GEOCHEMISTRY

Previous work by Falconbridge in 1969 included a detailed soil grid covering an area of approximately 1,200 meters by 1800 meters. Samples were analyzed for copper, zinc and silver. A number of significant weak to moderate anomalies were generated in areas peripheral to the main showing area. Follow up of these anomalies in 1987 showed that many had been tested by cat trenching. However, several of the more distal anomalies had not been sufficiently evaluated and required further investigation.

As a result, follow up mini grids were established and sampled over four of the anomalies. Samples were collected mainly at 15 meter (50 foot) intervals along 15 - 30 meter (50 - 100 foot) spaced lines over the anomalous sites using the original non metric grid coordinates. Where the anomalous site could not be relocated, a grid was set up in the approximate vicinity.

Samples were collected as nearly as possible from the 'B' soil horizon using a prospector's mattock. Each sample was stored in a labelled kraft soil bag, air dried and shipped to Acme Analytical Labs in Vancouver for analysis. Standard aqua regia digestion was utilized and analysis was performed by normal I.C.P. techniques for copper, lead, zinc, silver and arsenic. Results are summarized below and are plotted and contoured by element in figures 12 to 32 in Appendix 2.

For the purposes of this follow up, soil results were evaluated using the following parameters to determine anomalous values. These parameters were selected based on visual inspection of the data, and on results from other work in the same area.



<u>Element</u>	<u>Background</u>	<u>Anomalous</u>	<u>Strongly Anomalous</u>
Copper	0 - 55	56 - 100	>100 ppm
Lead	0 - 30	31 - 60	> 60 ppm
Zinc	0 - 250	251 - 500	>500 ppm
Silver	0 - 1.0	1.1 - 2.0	>2.0 ppm
Arsenic	0 - 25	26 - 50	> 50 ppm

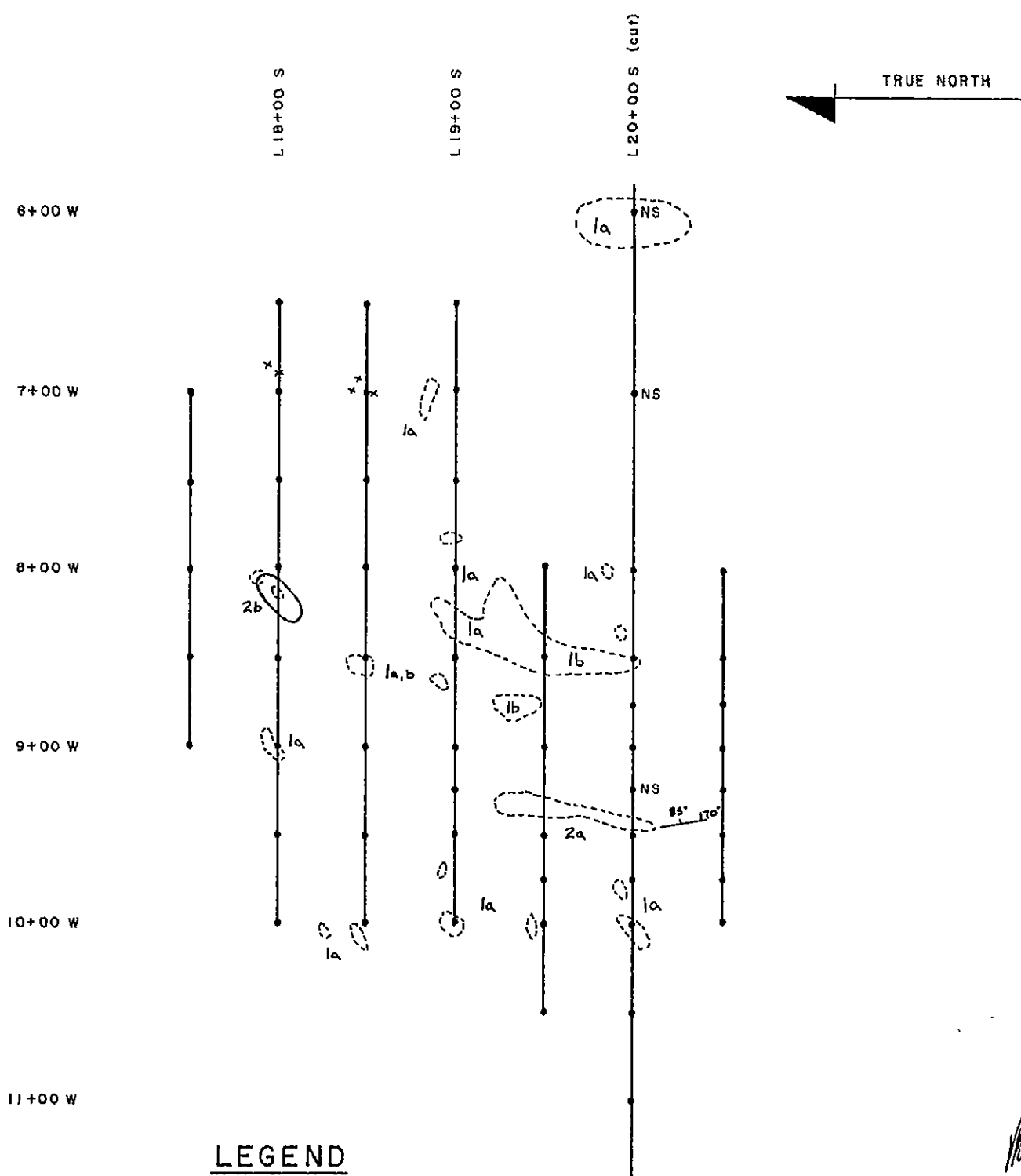
a) Anomaly 1 L18+00S - L20+00S, 9+00W

Previous results in this area showed a moderate zinc response associated with weak copper and silver highs in an area of outcrop on a moderately steep side hill. A total of 55 follow up samples on seven lines were collected using a 7.5 meter sample spacing over the anomalous site. Results are shown in figures 12 to 16.

A small, strong, sharply defined, coincidental copper - zinc - silver - lead response, with weak associated arsenic, was outlined in the southern portion of the mini grid. This zone is open downhill to the south. Values to 6,252 ppm copper, 4,378 ppm zinc, 9.0 ppm silver, and 170 ppm lead were obtained.

Mapping and prospecting show the area to be underlain largely by green, locally amygduliodal andesites, with lesser variable calcareous, light grey siltstones interbeds or lenses. This geology is summarized in figure 11. The andesites are mainly propylitically altered to chlorite-epidote ± sericite, with local areas of rusty quartz-carbonate flooding and stringers. The siltstone exposures are generally thin bedded with a well developed planar cleavage parallel to bedding. Only one cleavage measurement was possible and this indicated a north-south vertical orientation.

The core of the soil anomaly is associated with an outcrop of strongly calcareous siltstone with 1-3% very fine grained, disseminated pyrite. Just east of this, across a slight linear depression, are andesites which show increased sericitic alteration and light green bleaching.



**LEGEND**

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)
- OUTCROP
- 1 Andesite, a) ep.-chl. sms. alt.,  
b) ms. ± cp. ± chl alt.
- 2 Siltstone, a) calc. 1-3% py.;  
b) noncalc.

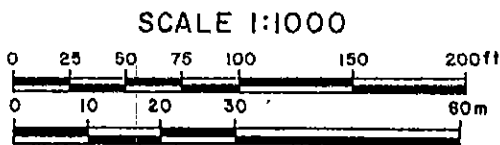
NB: Grid is not in metric units

**CANADIAN UNITED MINERALS INC**  
**DELSANTO PROJECT**  
 DelSanto Grid

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**FOLLOW-UP SOIL GEOCHEMISTRY**  
 L18+00 S , L20+00 S

**GEOLOGY**



b) Anomaly 2 L4+00N, 27+00W

The original grid showed a moderate zinc response with associated weak copper and silver in this vicinity. Previous grid lines could not be relocated, however, the current grid appears to cover a portion of this old anomaly. A total of 33 samples were collected with results shown on figures 17 to 21.

Sampling outlined a strong zinc response, with associated weakly anomalous copper - silver - lead, over a large area of the grid. Values to 3,815 ppm zinc, 77 ppm copper, 1.8 ppm silver, and 48 ppm lead were obtained.

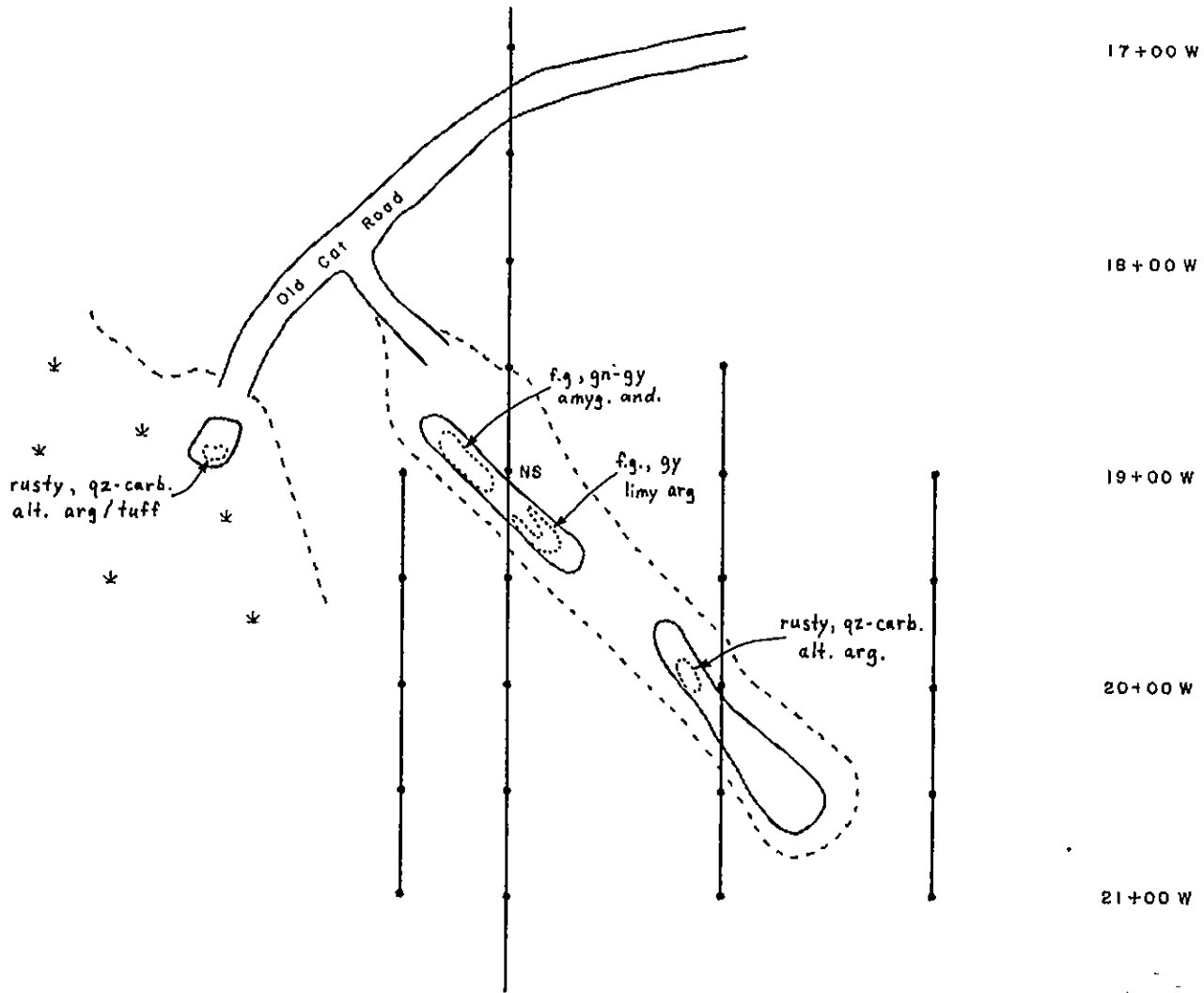
No rock exposure was found and part of the grid area is swampy, however, anomalous sample sites were re-examined and found to contain good quality rusty orange soil. The anomalous zone appears to be diminished by the swamp to the east and the south, however, some of the previous anomalous sites appear to be south of this swamp suggesting continuity in that direction.

c) Anomaly 3 L6+00N 20+00W

This area showed a previous weak silver response and follow up found three old cat trenches. Two of these trenches uncovered strongly rusty, quartz - carbonated flooded and veined argillites but no significant sulfides. Twenty-five follow up samples were collected and results are shown in figures 23 to 27. Results show a weak silver response, with slight enrichment in zinc and arsenic in the area just west of the trenches. Values to 1.9 ppm silver, 248 ppm zinc and 28 ppm arsenic were obtained. This response is not associated with any outcrop exposures and no significant values were obtained in the vicinity of known rusty outcrops.



L 5+00 N  
L 6+00 N  
L 4+00 N



**LEGEND**

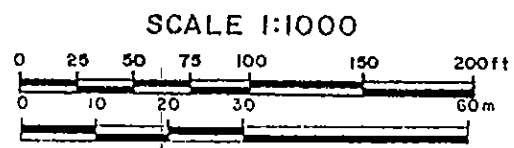
- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NO SAMPLE TAKEN
- OUTCROP

NB. Grid is not in metric units.

CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 6+00 N

**GEOLOGY**



d) Anomaly 4 L14+00N 30+00W

Zinc values to 720 ppm were obtained in the past from this vicinity however, the grid lines could not be relocated. Prospecting revealed numerous debris and suboutcrop of fine grained green to green-gray andesitic tuff in the area and outcroppings of similar rock occur just uphill. No significant alteration was noted with the exception of local barren quartz stockworks and epidote-chlorite fractures. Two very small rusty patches were noted further uphill one of which contained some sphalerite, however, neither showed any width or continuity.

Twenty-seven soil samples were collected from three lines along the side of the hill. Results as shown in figures 28 to 32, outline several small scattered copper - zinc - arsenic responses with values up to 487 ppm zinc, 141 ppm copper and 73 ppm arsenic. No follow up of these values has been done. It appears, however that the original zinc anomalies may have been located further downhill and thus remain untested.

CONCLUSIONS AND RECOMMENDATIONS

The lack of continuity of grade and mineralization at the Delsanto showing, both along strike and to depth is discouraging. In addition, only the highest grades hold economic potential and these are restricted to a relatively small central zone. What on-strike potential there is appears to be to the north where heavy overburden and the recessive weathering nature have obscured the trace of the mineralized horizon. This area is also more proximal to the intrusive source and is relatively untested. Based on results obtained to date, however it is felt that the Delsanto showing overall has low economic potential and no further work is recommended at this time.

Previous reports of a second similar zone to the Delsanto showing and of gold bearing pyrite-arsenopyrite mineralization

have not been confirmed. However, it is probably worthwhile spending a few days trying to locate these in the event that they may prove important.

Of the four soil anomalies tested by mini grids, two were confirmed as having strongly anomalous responses. Anomaly 1 had the highest responses in copper, zinc, silver and lead and is closely associated with pyritic and sericitic alteration. The small size of the anomaly is of concern but further work is still warranted. Anomaly 2 contains high zinc values over a relatively large area and is open to the south. There is no rock exposure in the area but the anomaly appears to be valid and should also be further tested. The remaining two areas tested produced weaker results and are of lesser priority. Anomaly 4 sampling may have missed the intended target and should be re-evaluated.

Future work on the above anomalies should include expanding the mini grids of anomalies 1, 2, and 4 to the south to close off or test for responses in this direction. In addition, hand trenching of anomaly 1 and backhoe trenching of anomaly 2 are recommended as the next stage of investigation.

## REFERENCES

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STATEMENT OF COSTS

The following costs were incurred on behalf of Canadian-United Minerals, Inc., for work related to exploration on the Delsanto claim group during the period May 12, 1987 to June 15, 1988.

Backhoe Trenching 45 hr. @ \$55	\$ 2,475
Drafting 4 days @ \$280/day	\$ 1,120
Geochemical Analysis 177@ \$5.42/sample	\$ 959
Printing & copying	\$ 32
Room & Board 20.5 days @ \$50/day	\$ 1,025
Transportation (gas, airfare, freight)	\$ 600
Truck Rental 8 days @ \$50/day	\$ 400

Wages:

R. Holland - Senior geologist	
- field 13,5 days @ \$350/day	\$ 4,725
- report 7 days @ \$350/day	\$ 2,450
R. Helgason - Project geologist	
- field 4 days @ \$350/day	\$ 1,400
M. Allen - Field assistant	
- field 3 days @ \$175/day	\$ 525
Secretarial	\$ 75

TOTAL	\$15,786
-------	----------

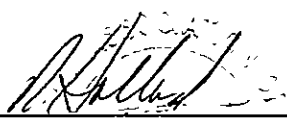


QUALIFICATIONS

I, Robert Holland, of 13451 - 112 A Avenue, Surrey, British Columbia, hereby certify that:

1. I am a graduate of the University of British Columbia and hold a B.Sc degree in Geology (1976).
2. I have worked in mining exploration for various companies continuously since 1976.
3. I am currently employed as Senior Geologist with CUN Management Group Inc., of 325 - 1130 West Pender Street, Vancouver, British Columbia.
4. I am a Fellow of the Geological Association of Canada.
5. The information contained in this report was obtained as a result of field work carried out by CUN Management Group Inc., under my direction and supervision.

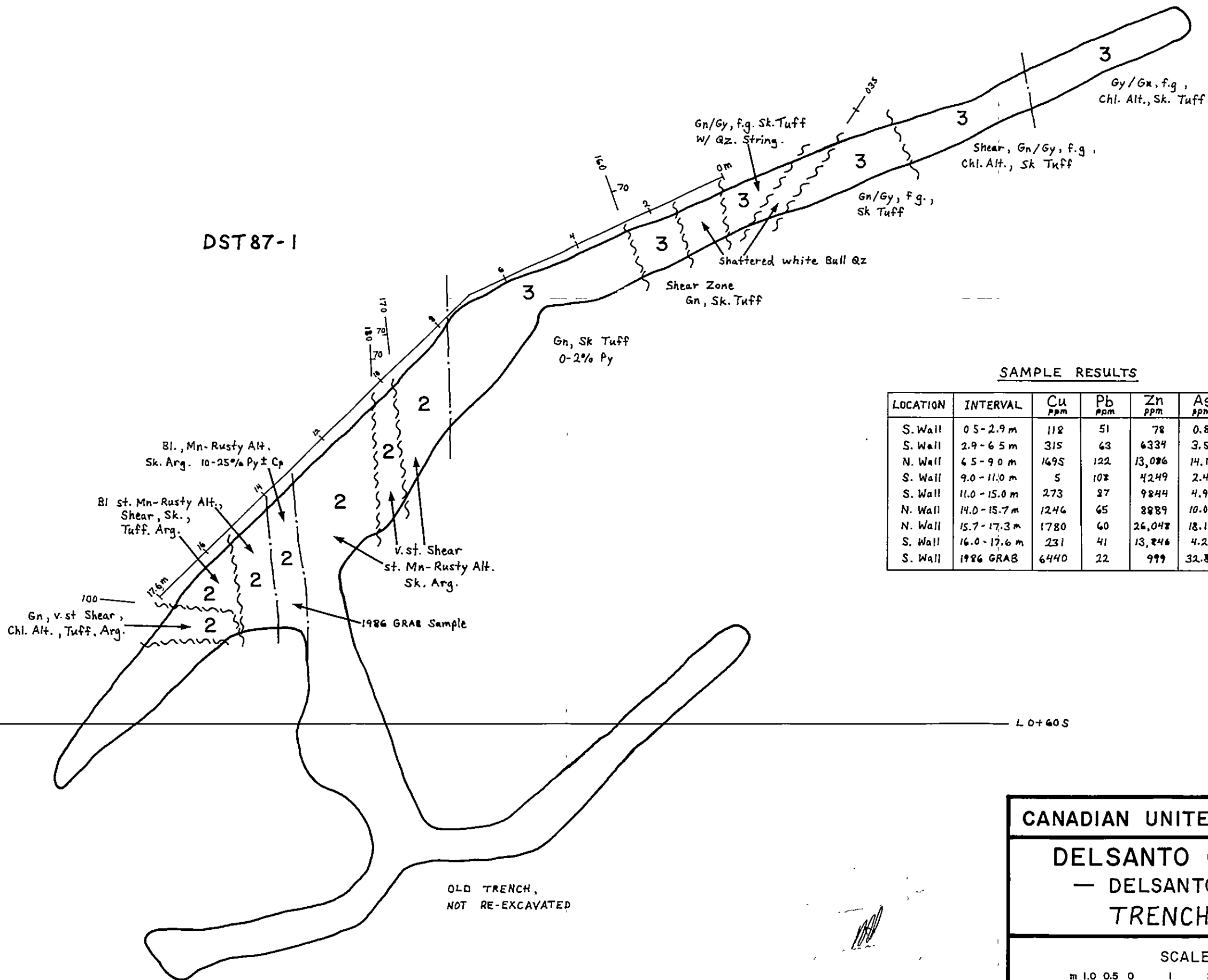
June 14, 1988

  
\_\_\_\_\_  
Robert Holland, B.Sc., F.G.A.C  
Senior Geologist

APPENDIX 1  
Detailed Trench Maps  
Fig 5 - 10



DST87-1



SAMPLE RESULTS

LOCATION	INTERVAL	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
S. Wall	0.5-2.9 m	118	51	78	0.8	16
S. Wall	2.9-6.5 m	315	63	6334	3.5	33
N. Wall	6.5-9.0 m	1495	122	13,086	14.1	344
S. Wall	9.0-11.0 m	5	102	4249	2.4	34
S. Wall	11.0-15.0 m	273	27	9244	4.9	26
N. Wall	14.0-15.7 m	1246	65	8889	10.0	17
N. Wall	15.7-17.3 m	1780	60	26,042	18.1	16
S. Wall	16.0-17.6 m	231	41	13,246	4.2	3
S. Wall	1986 GRAB	6440	22	999	32.8	21

M 0E+0

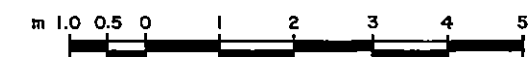
L 0+60 S

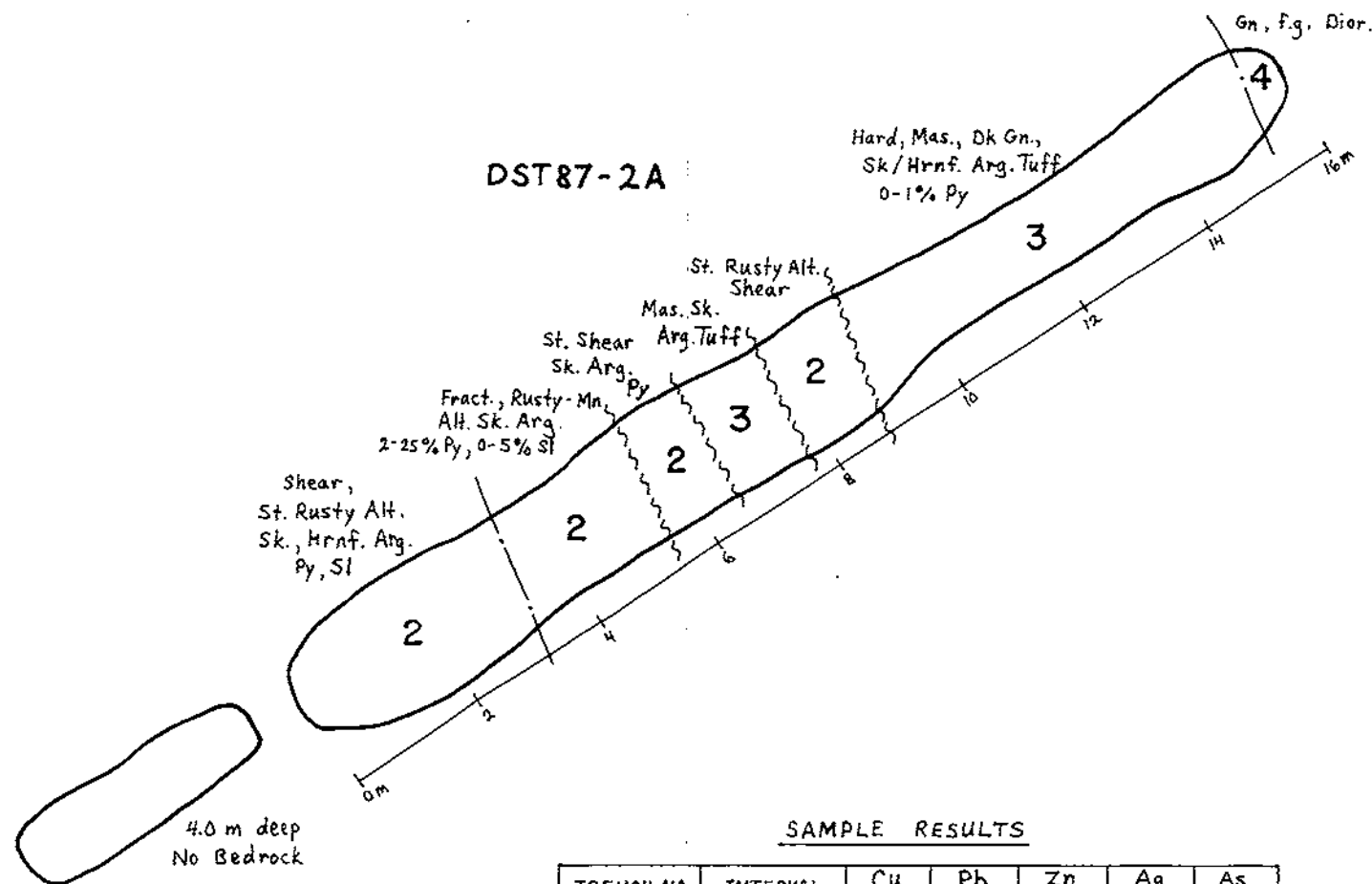
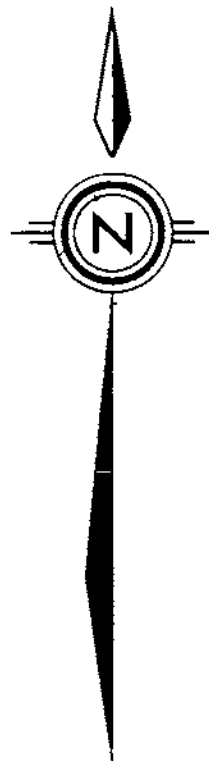
OLD TRENCH,  
NOT RE-EXCAVATED

CANADIAN UNITED MINERALS INC.

DELSANTO CLAIM GROUP  
— DELSANTO SHOWING —  
TRENCH DST87-1

SCALE 1:100

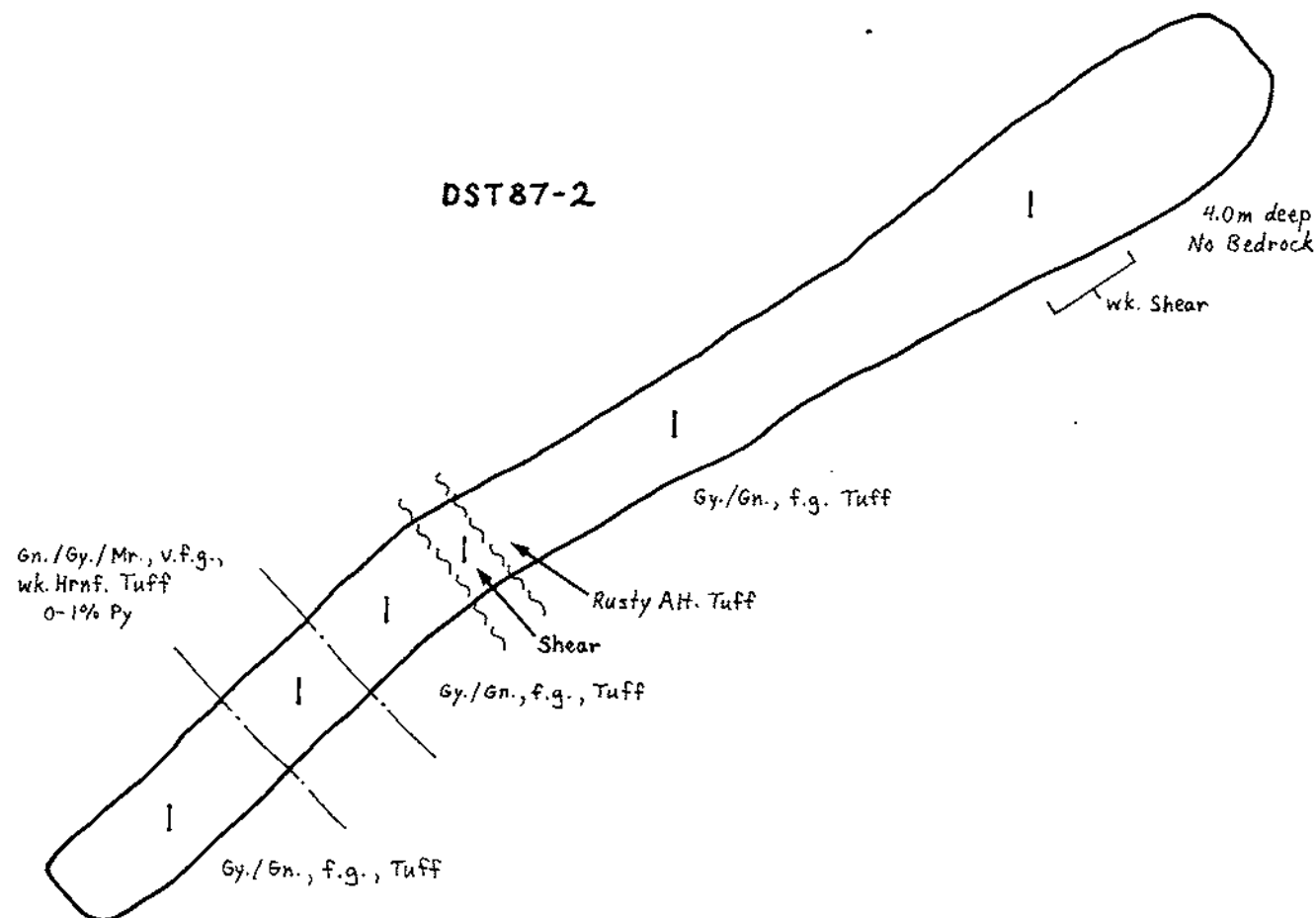




SAMPLE RESULTS

TRENCH NO.	INTERVAL	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
DST87-2A	1.0 - 3.4 m	88	77	12,900	3.4	10
-2A	3.4 - 5.4 m	625	66	13,999	7.3	29
-2A	5.6 - 6.8 m	120	44	7792	3.2	13
-2A	6.8 - 7.8 m	75	73	6355	2.8	8
-2A	7.8 - 9.0 m	349	53	6431	3.4	22

DST87-2



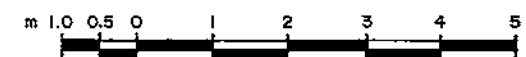
CANADIAN UNITED MINERALS INC.

DELSANTO CLAIM GROUP

— DELSANTO SHOWING —

TRENCHES DST87-2, -2A

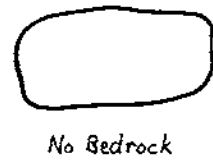
SCALE 1:100



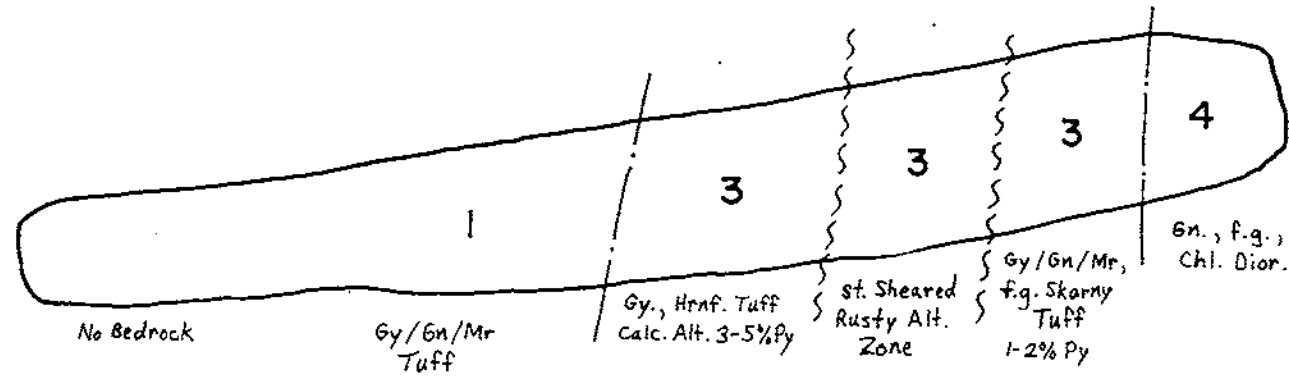
L0+00S

0+30W

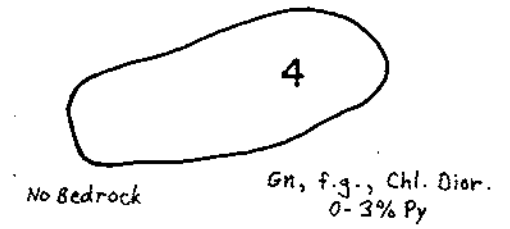
DST87-3B  
(4.0 m deep)



DST87-3  
(3.0-4.0 m deep)



DST87-3A  
(3.7 m deep)



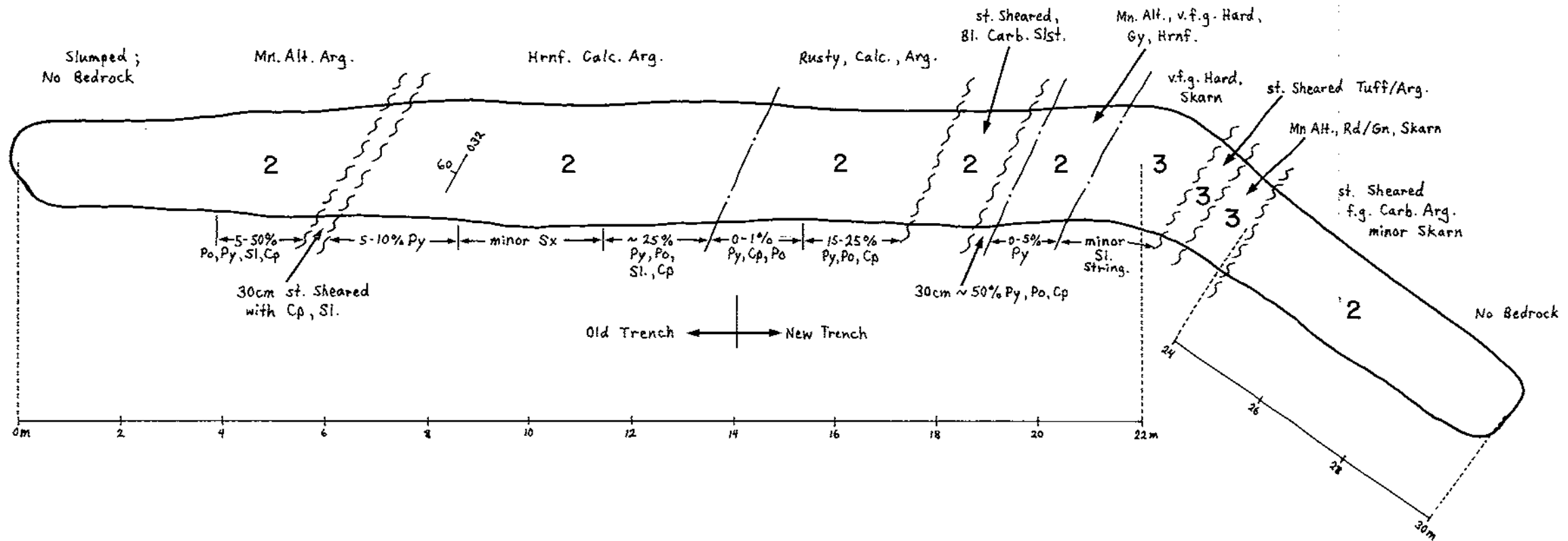
CANADIAN UNITED MINERALS INC.

DELSANTO CLAIM GROUP  
— DELSANTO SHOWING —  
TRENCH DST87-3

SCALE 1:100



# DST 87-4



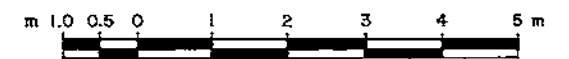
## SAMPLE RESULTS

INTERVAL	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
5.0 - 6.4 m	28,850	725	33,004	307.3	21
8.2 - 9.2 m	1541	40	6033	6.5	12
9.2 - 10.2 m	1091	57	23,507	10.5	11
10.2 - 12.0 m	884	35	16,259	8.7	7
12.0 - 14.0 m	2023	29	2303	18.6	8
14.0 - 16.0 m	295	37	4820	10.0	5
16.0 - 18.0 m	2413	34	4416	15.1	5
19.0 - 20.0 m	31,200	47	8625	146.0	5
21.0 - 22.0 m	300	19	20,221	3.8	13
23.0 - 24.0 m	1468	52	4573	13.5	23
1986 GRAB	18,402	230	867	114.4	24

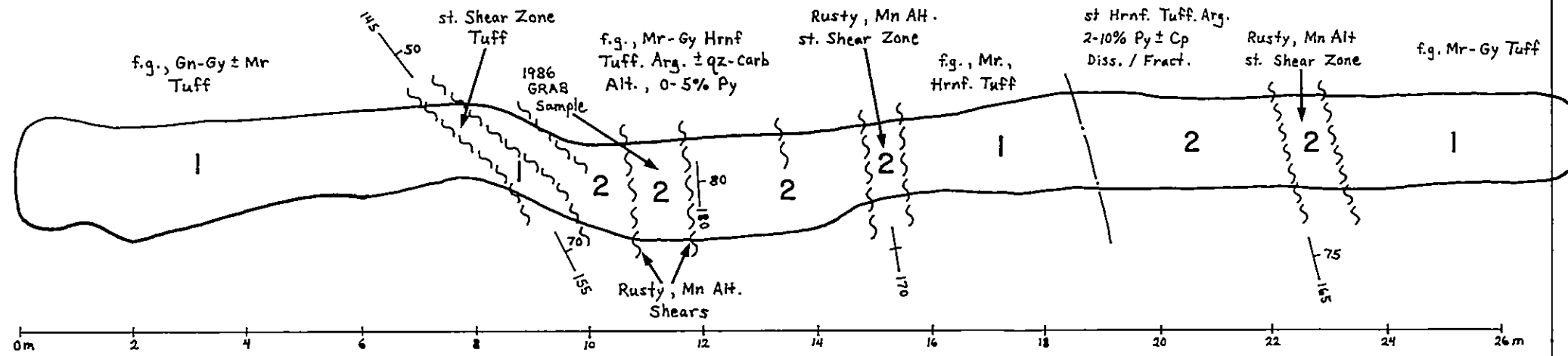
CANADIAN UNITED MINERALS INC.

DELSANTO CLAIM GROUP  
— DELSANTO SHOWING —  
TRENCH DST87-4

SCALE 1:100



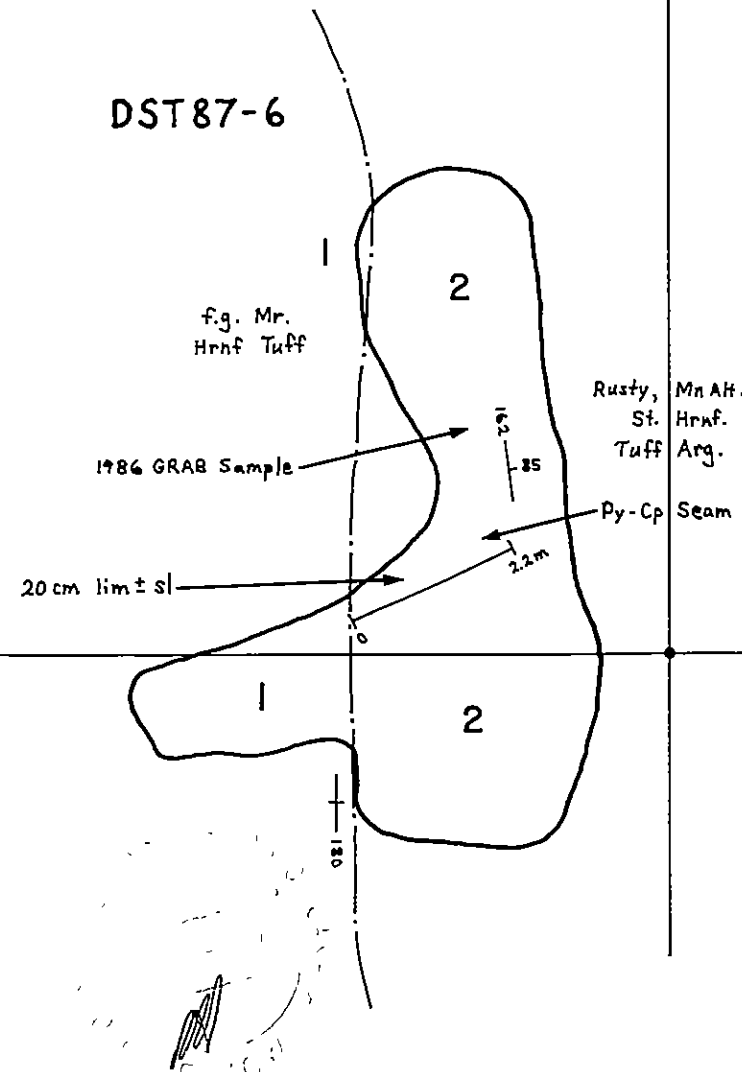
DST87-5



SAMPLE RESULTS

TRENCH NO.	INTERVAL	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
DST87-5	8.5 - 10.5 m	415	2	289	2.8	15
- 5	10.5 - 11.8 m	936	45	4633	12.3	41
- 5	11.8 - 14.0 m	1961	43	12,825	19.5	30
- 5	14.0 - 15.6 m	1159	61	4315	11.0	165
- 5	18.7 - 20.3 m	1770	54	4925	14.4	6
- 5	20.3 - 22.2 m	2419	58	1658	25.2	7
- 5	1986 GRAB	1531	44	2617	14.7	5
DST87-6	0 - 2.2 m	13,297	52	4070	141.2	21
- 6	1986 GRAB	6104	22	1772	47.8	17

DST87-6



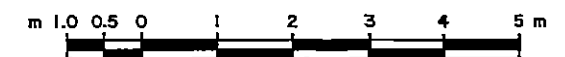
CANADIAN UNITED MINERALS INC.

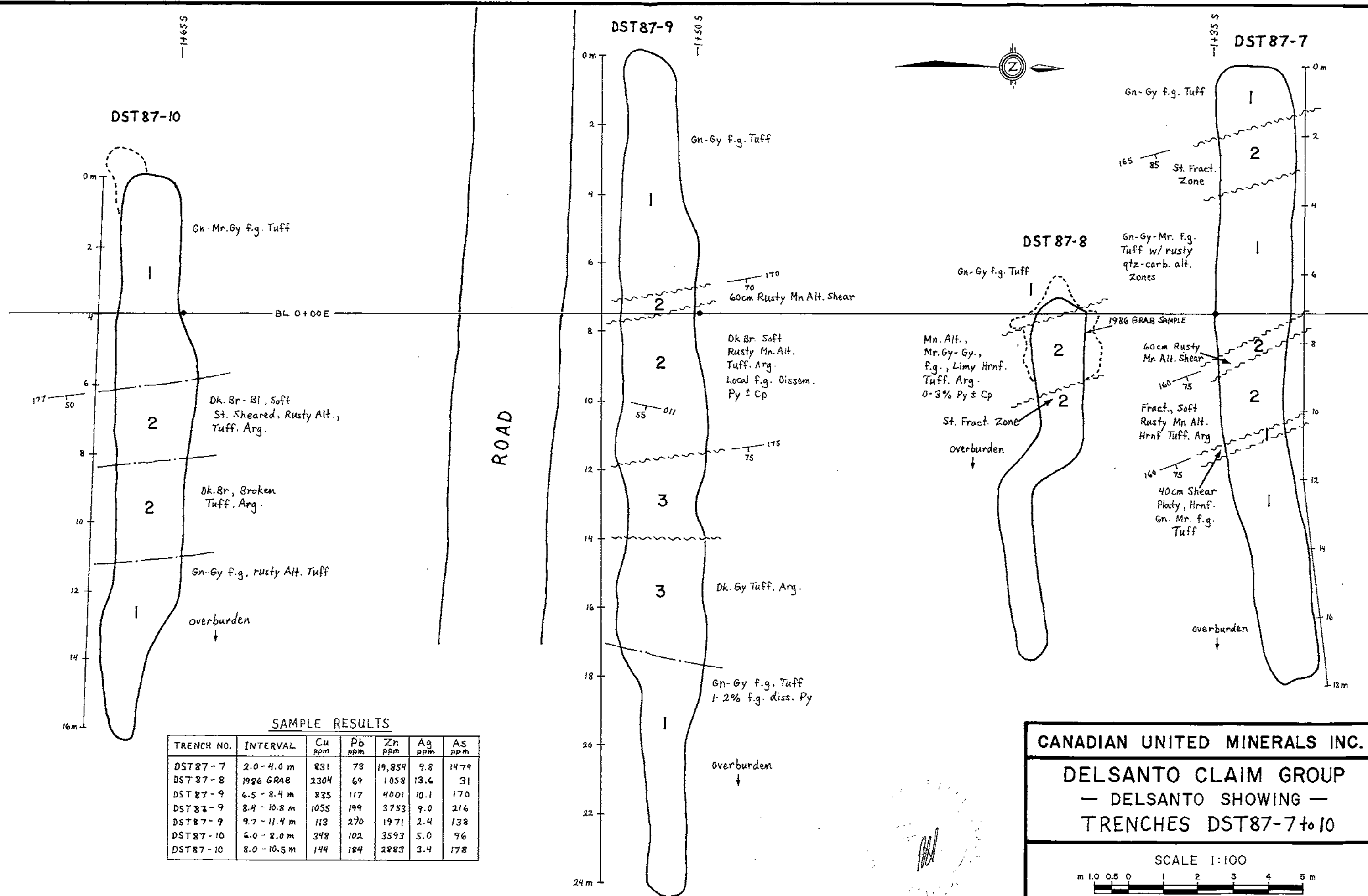
DELSANTO CLAIM GROUP

— DELSANTO SHOWING —

TRENCHES DST87-5+6

SCALE 1:100





SAMPLE RESULTS

TRENCH NO.	INTERVAL	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
DST 87-7	2.0 - 4.0 m	831	73	19,854	9.8	1479
DST 87-8	1986 GRAB	2304	69	1058	13.6	31
DST 87-9	6.5 - 8.4 m	835	117	4001	10.1	170
DST 87-9	8.4 - 10.8 m	1055	199	3753	9.0	216
DST 87-9	9.7 - 11.4 m	113	270	1971	2.4	138
DST 87-10	6.0 - 8.0 m	348	102	3593	5.0	96
DST 87-10	8.0 - 10.5 m	144	184	2883	3.4	178

**CANADIAN UNITED MINERALS INC.**

**DELSANTO CLAIM GROUP**  
 — DELSANTO SHOWING —  
**TRENCHES DST87-7 to 10**

SCALE 1:100

m 1.0 0.5 0 1 2 3 4 5 m

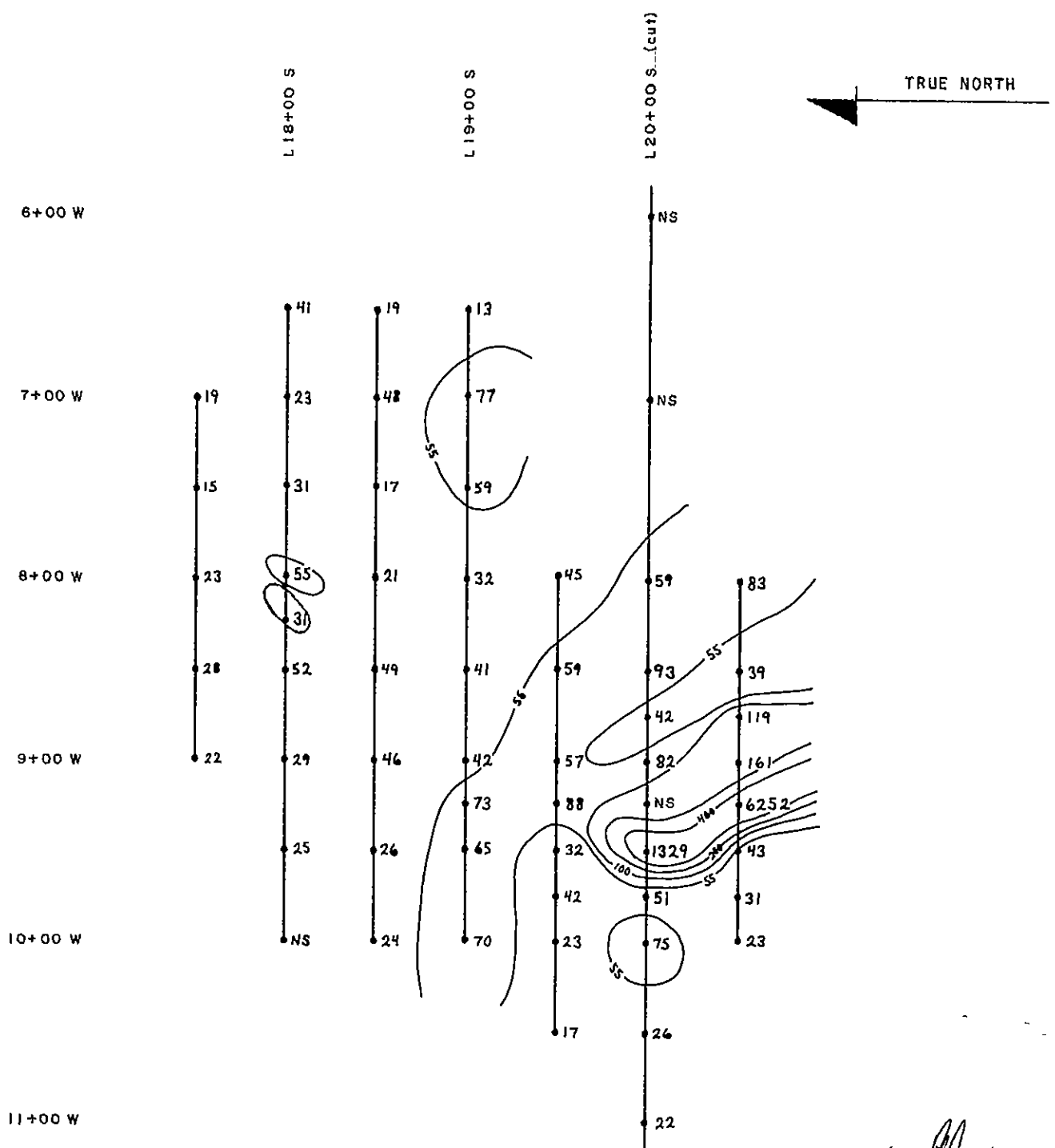
CUN MANAGEMENT INC. 93L/10E June 1988 FIG. 10



APPENDIX 2

Follow-up Soil Geochemistry

Fig. 12 - 21, 23 - 32



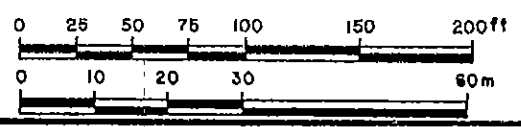
**LEGEND**

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)
- 0 - 55 ppm BACKGROUND
- 55 - 100 ppm ANOMALOUS
- > 100 ppm HIGHLY ANOMALOUS

**NB:** Grid is not in metric units.

VALUES CONTOURED AT 55, 100, 200, 400 ppm

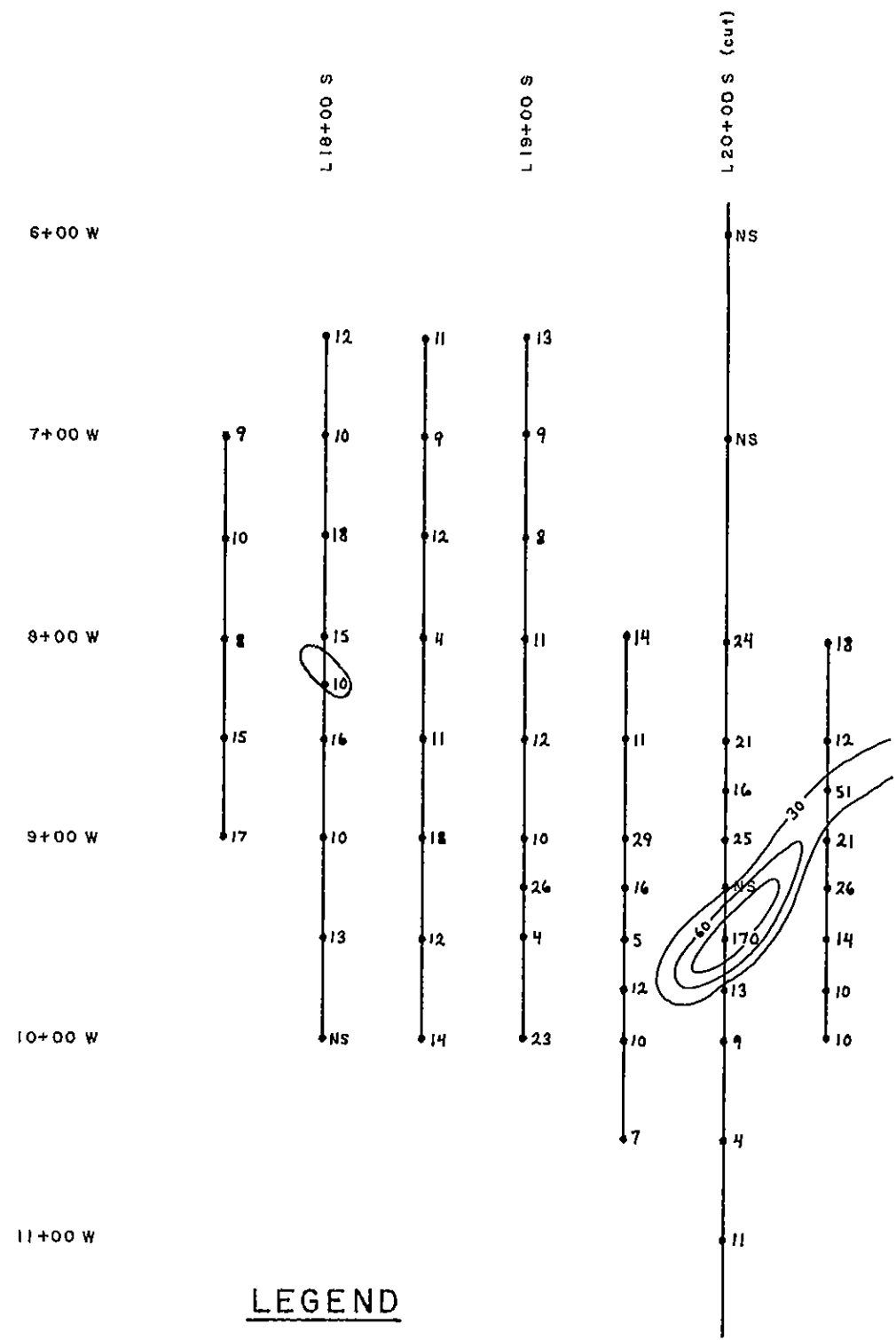
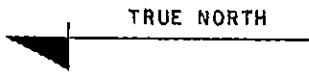
SCALE 1:1000



**CANADIAN UNITED MINERALS INC**  
**DELSANTO PROJECT**  
 DelSanto Grid

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**FOLLOW-UP SOIL GEOCHEMISTRY**  
 L18+00 S , L20+00 S  
**—COPPER—**

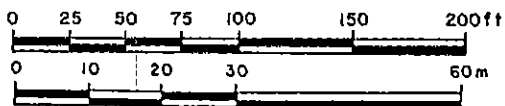


**LEGEND**

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)
- 0 - 30 ppm BACKGROUND
- 31 - 60 ppm ANOMALOUS
- > 60 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 30, 60, 120 ppm

SCALE 1:1000

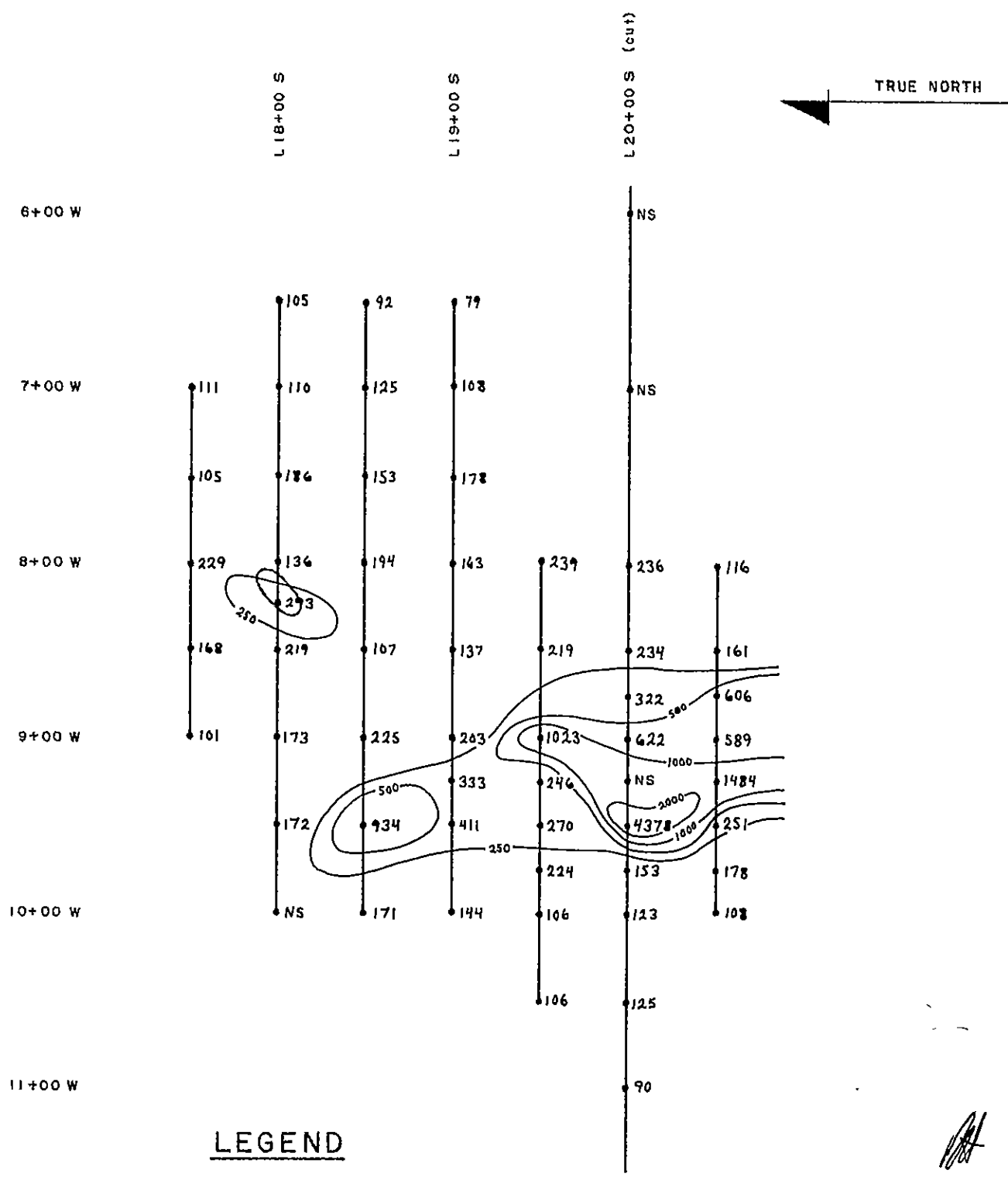


NB. Grid is not in metric units.

**CANADIAN UNITED MINERALS INC**  
**DELSANTO PROJECT**  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L18+00 S , L20+00 S

**- LEAD -**



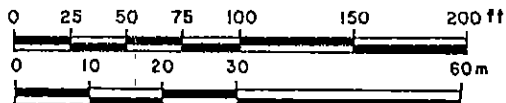
**LEGEND**

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)

- 0 - 250 ppm BACKGROUND
- 251 - 500 ppm ANOMALOUS
- > 500 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 250, 500, 1000, 2000 ppm

SCALE 1:1000

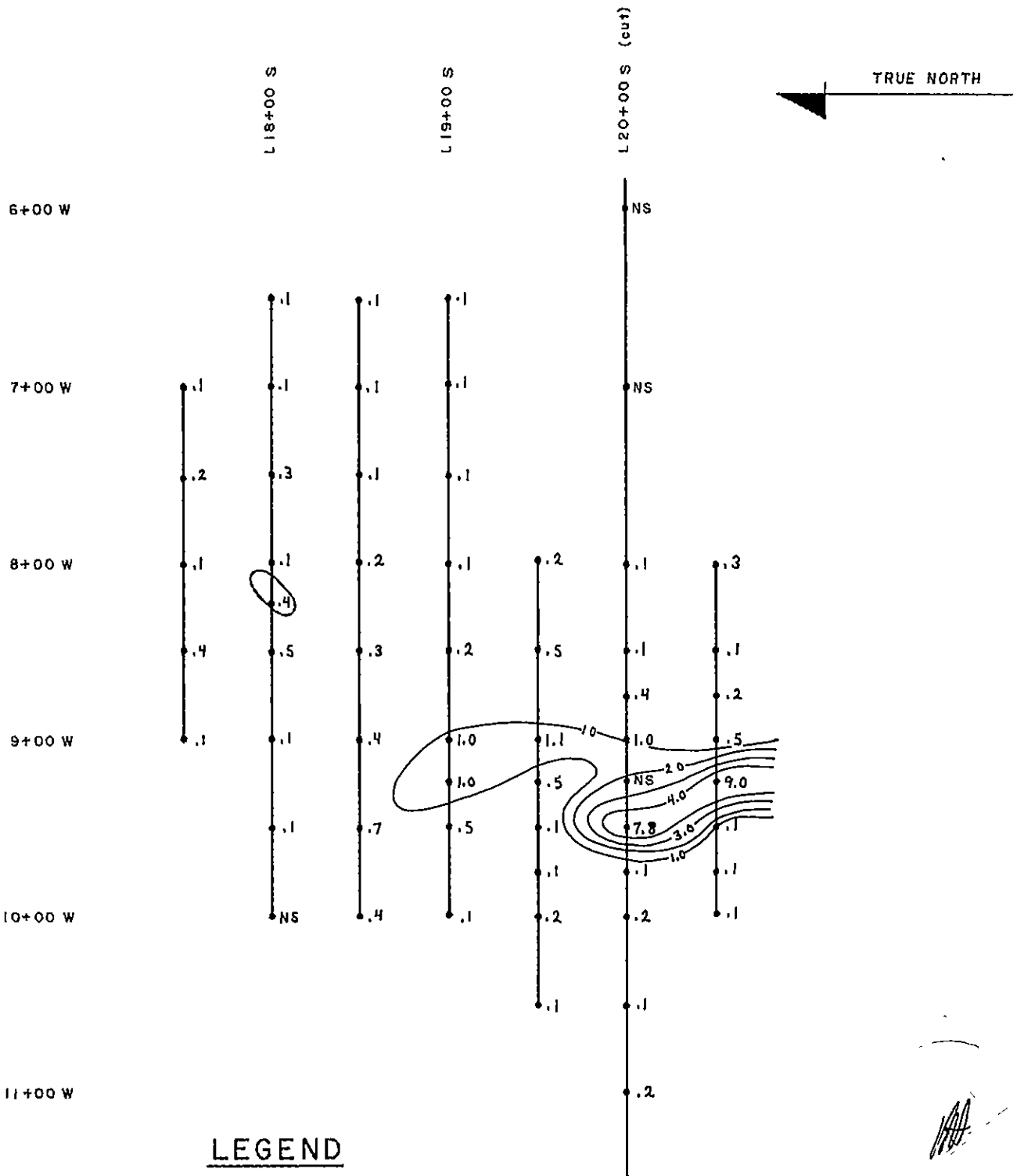


NB: Grid is not in metric units.

**CANADIAN UNITED MINERALS INC**  
**DELSANTO PROJECT**  
 DelSanto Grid

**FOLLOW-UP SOIL GEOCHEMISTRY**  
 L18+00 S , L20+00 S

**-ZINC-**



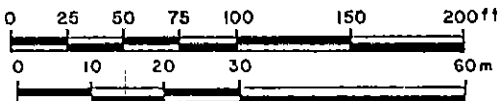
### LEGEND

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)
- 0 - 1.0 ppm BACKGROUND
- 1.1 - 2.0 ppm ANOMALOUS
- > 2.0 ppm HIGHLY ANOMALOUS

NB. Grid is not in metric units.

VALUES CONTOURED AT 1.0, 2.0, 3.0, 4.0 ppm

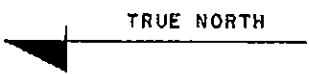
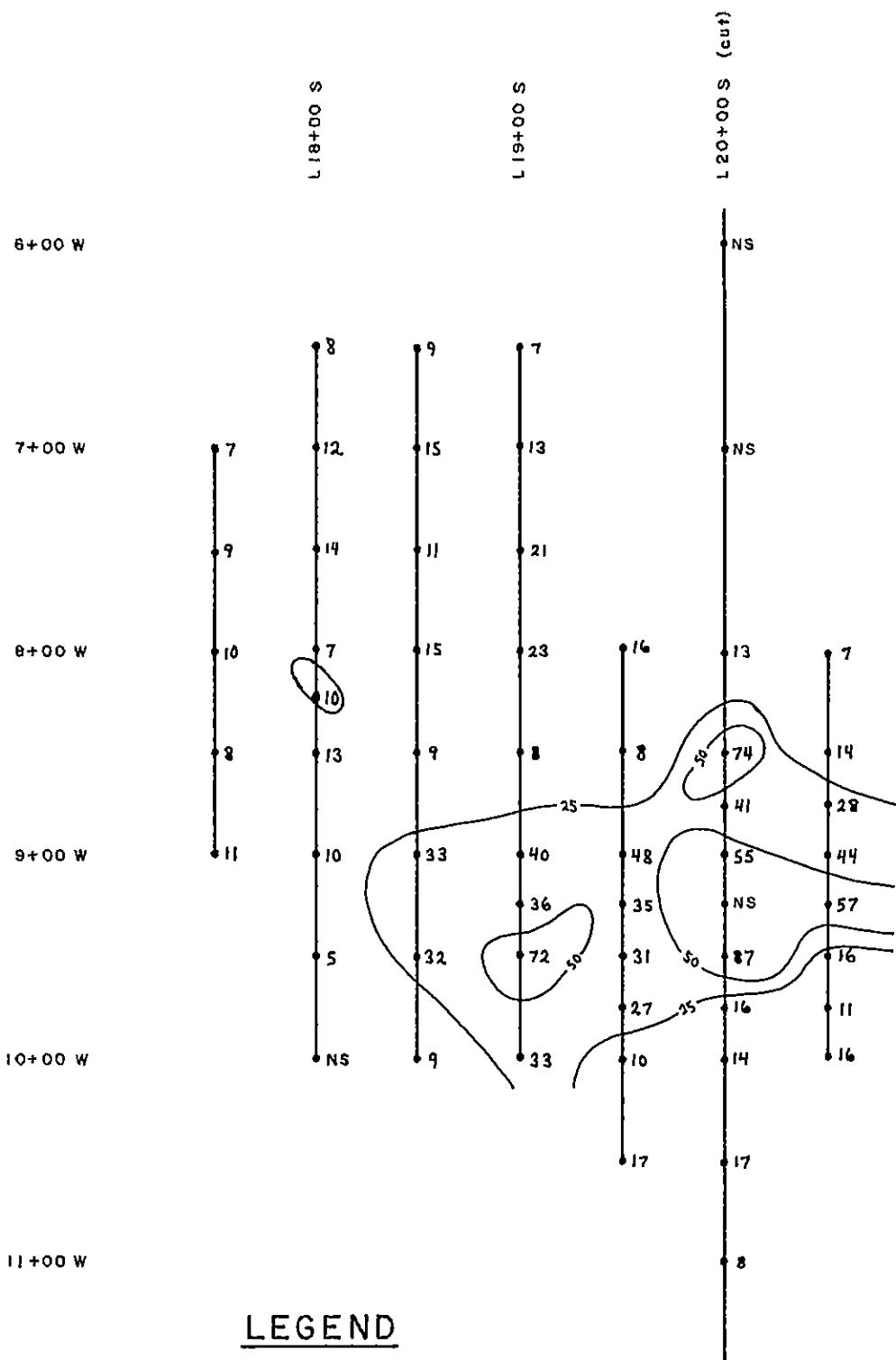
SCALE 1:1000



CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L18+00 S , L20+00 S

**-SILVER-**



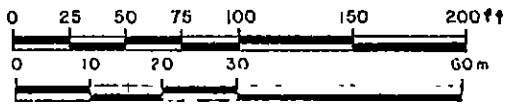
**LEGEND**

- GRID LINE W/ STATIONS
- NS NO SAMPLE TAKEN
- CAT TRENCH (OLD)
- 0 - 25 ppm BACKGROUND
- 26 - 50 ppm ANOMALOUS
- > 50 ppm HIGHLY ANOMALOUS

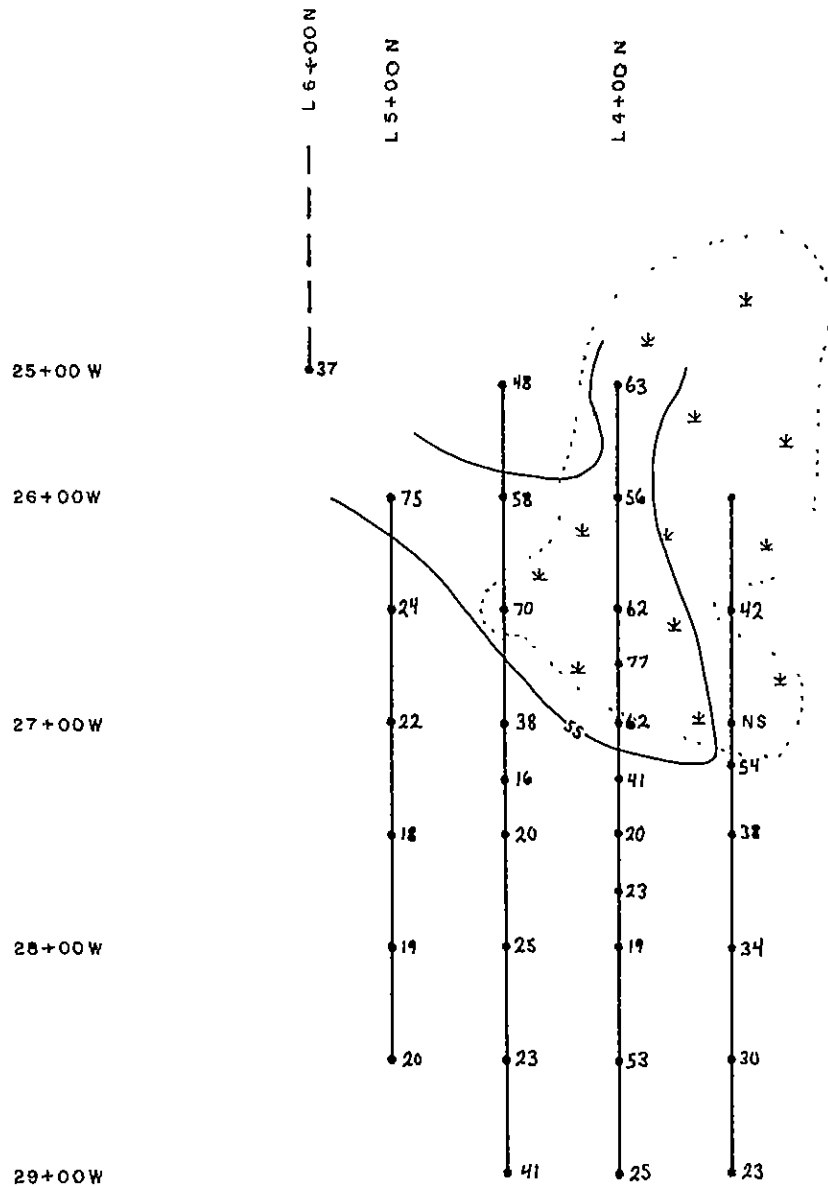
NB. Grid is not in metric units.

VALUES CONTOURED AT 25, 50 ppm

SCALE 1:1000



<b>CANADIAN UNITED MINERALS INC</b> <b>DELSANTO PROJECT</b> DeSanto Grid		
<b>FOLLOW-UP SOIL GEOCHEMISTRY</b> L18+00 S , L20+00 S <b>—ARSENIC—</b>		
PILOT MANAGEMENT INC	March 1988	FIG. 16



**LEGEND**

—●— GRID LINE W/ STATIONS

— OLD GRID

NS NO SAMPLE TAKEN

⊕ SWAMP

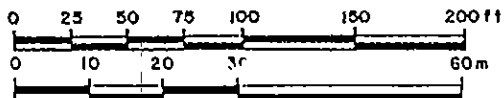
0 - 55 ppm BACKGROUND

56 - 100 ppm ANOMALOUS

> 100 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 55 ppm

SCALE 1:1000



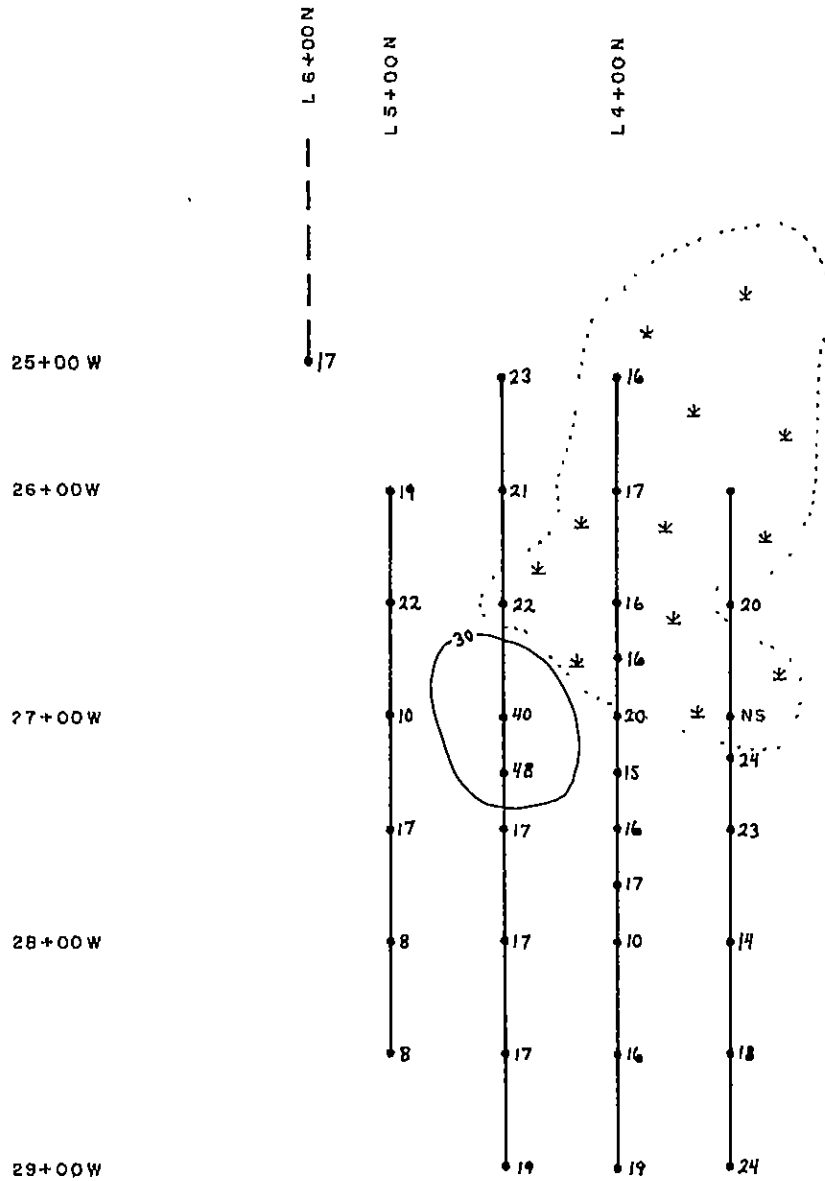
NB. Grid is not in metric units

CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DeLSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L 4+00N

— COPPER —

PILOT MANAGEMENT INC March 1988 FIG. 17

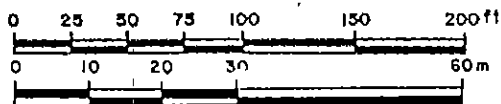


**LEGEND**

- GRID LINE W/ STATIONS
- OLD GRID
- NS NO SAMPLE TAKEN
- ⋆ SWAMP
- 0 - 30 ppm BACKGROUND
- 31 - 60 ppm ANOMALOUS
- > 60 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 30 ppm

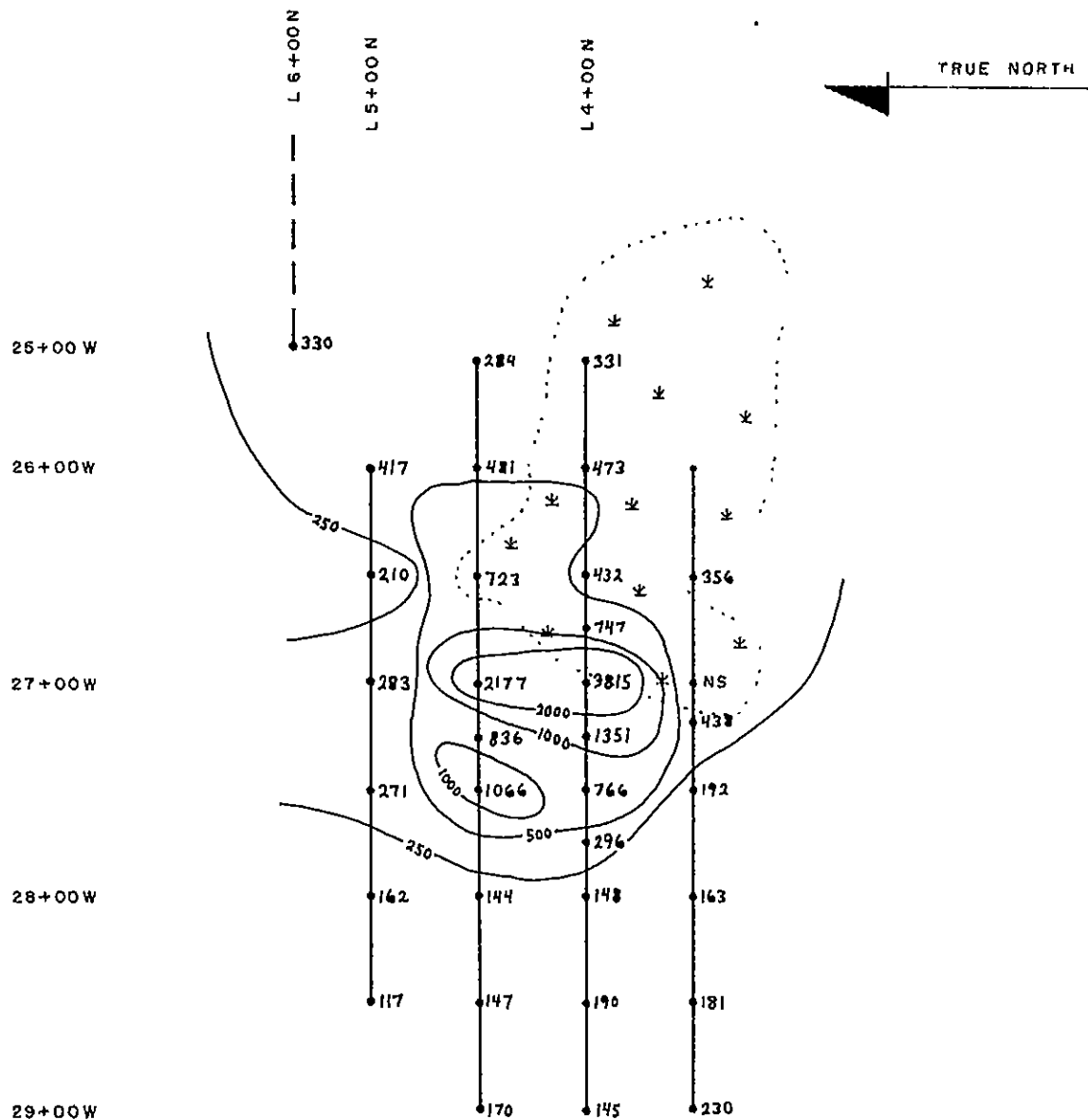
SCALE 1:1000



NB: Grid is not in metric units

<p>CANADIAN UNITED MINERALS INC DELSANTO PROJECT DelSanto Grid</p>		
<p>FOLLOW-UP SOIL GEOCHEMISTRY L 4+00N — LEAD —</p>		
PILOT MANAGEMENT INC	March 1988	FIG. 18





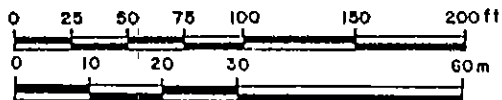
**LEGEND**

- GRID LINE W/ STATIONS
- OLD GRID
- NS NO SAMPLE TAKEN
- ⋆ SWAMP
- 0 - 250 ppm BACKGROUND
- 251 - 500 ppm ANOMALOUS
- > 500 ppm HIGHLY ANOMALOUS

NB. Grid is not in metric units

VALUES CONTOURED AT 250, 500, 1000, 2000 ppm

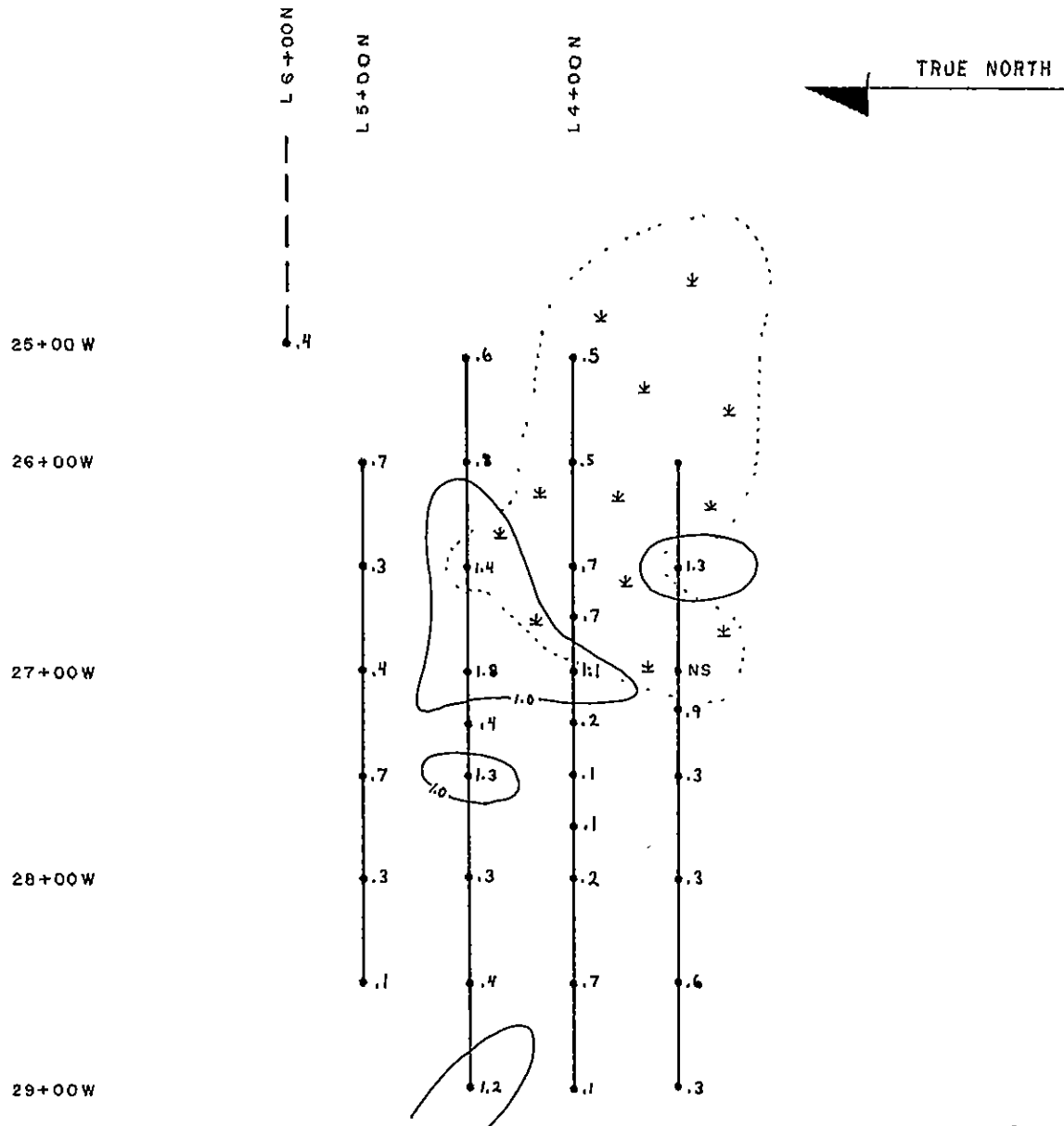
SCALE 1:1000



CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L4+00N

**-ZINC-**

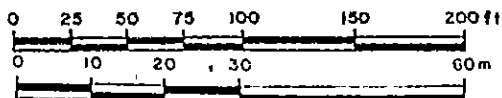


**LEGEND**

- GRID LINE W/ STATIONS
- OLD GRID
- NS NO SAMPLE TAKEN
- \* SWAMP
- 0 - 1.0 ppm BACKGROUND
- 1.1 - 2.0 ppm ANOMALOUS
- > 2.0 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 1.0, 2.0 ppm

SCALE 1:1000

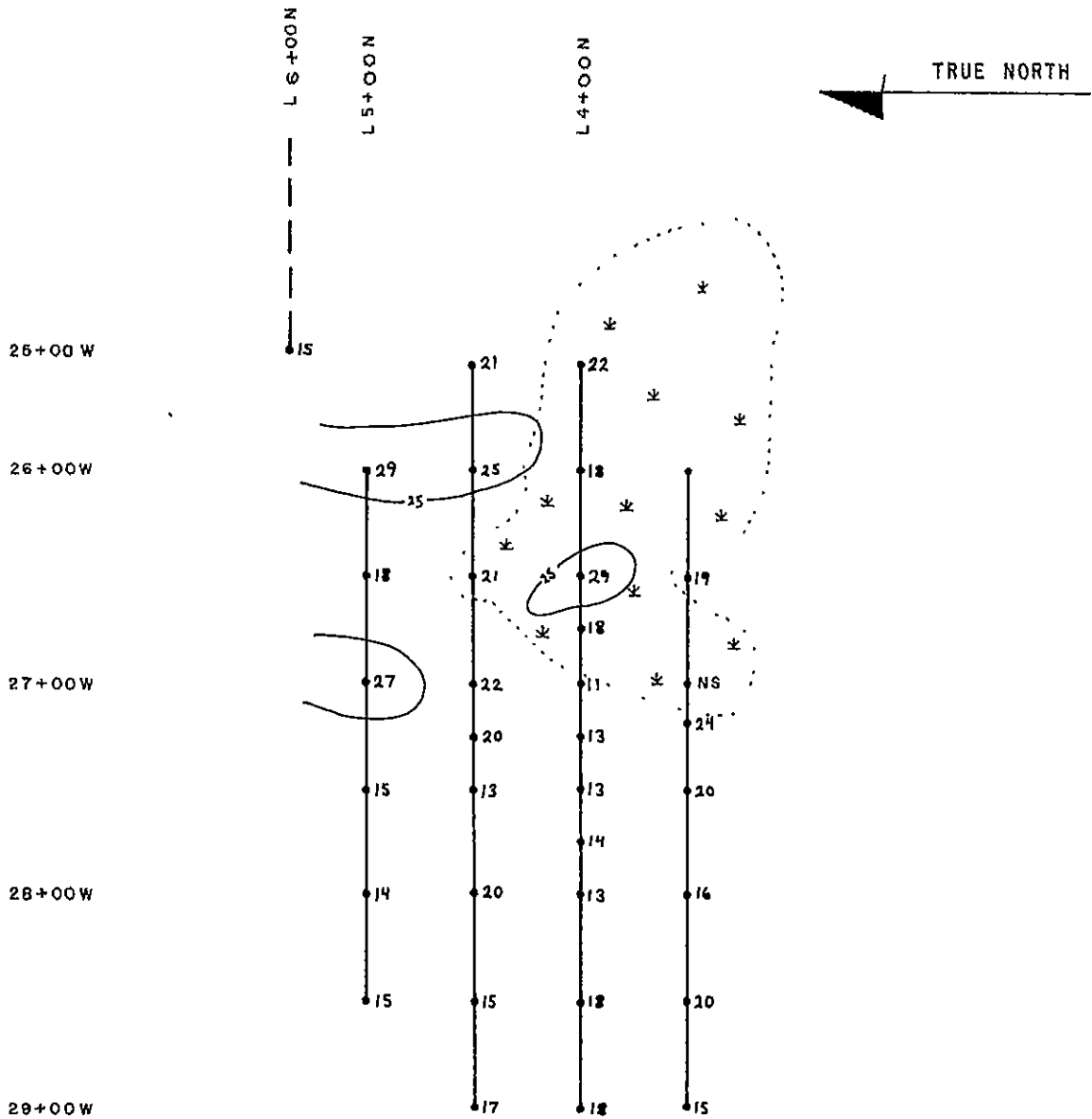


NB: Grid is not in metric units

CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 4+00N

— SILVER —



**LEGEND**

- GRID LINE W/ STATIONS
- OLD GRID
- NS NO SAMPLE TAKEN
- ⋆ SWAMP
- 0 - 25 ppm BACKGROUND
- 26 - 50 ppm ANOMALOUS
- > 50 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 25, 50, 100, 200 ppm

SCALE 1:1000

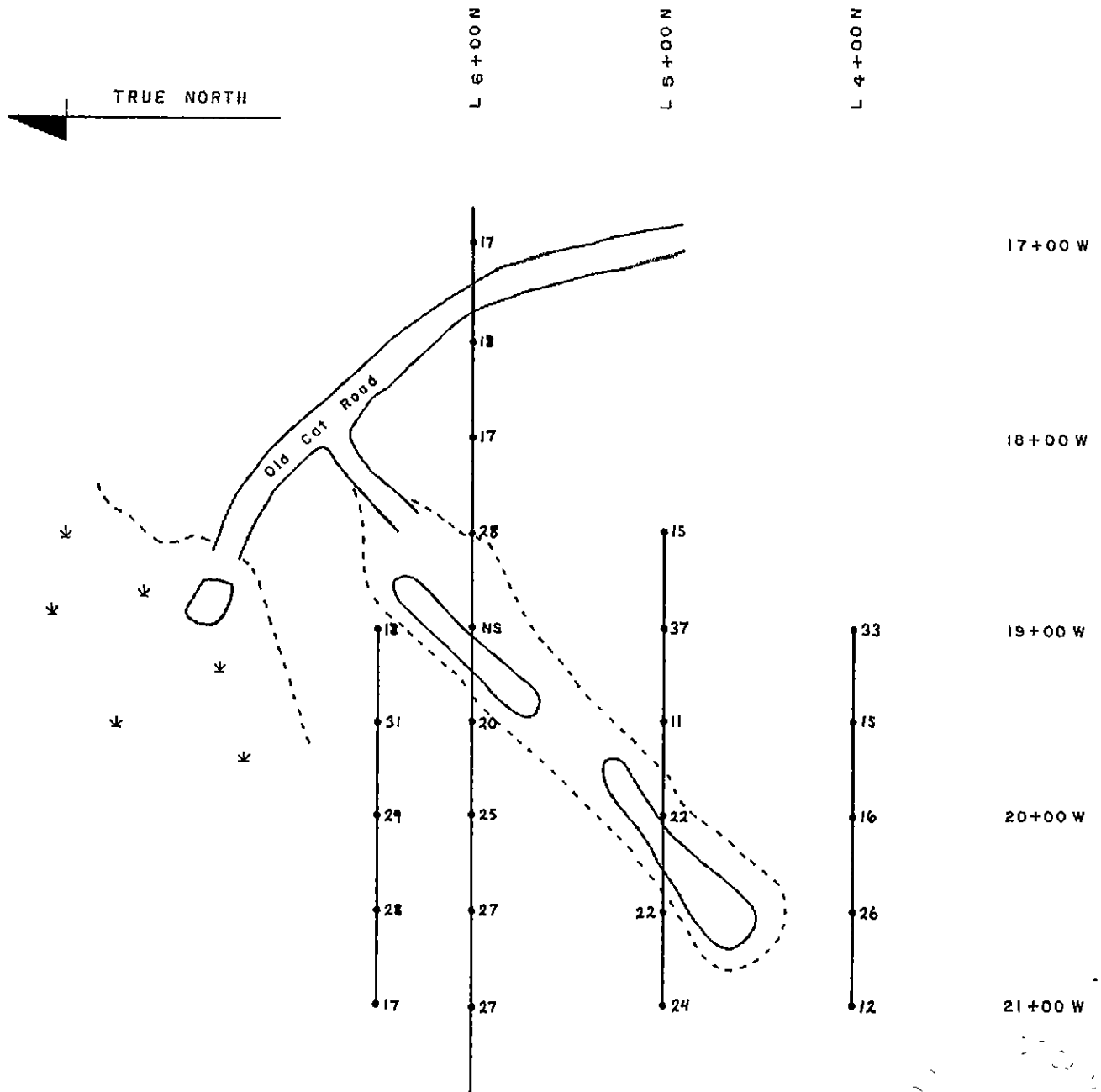


NB. Grid is not in metric units

CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DeLSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L4+00N

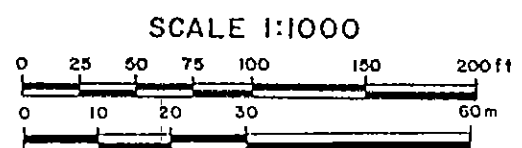
— ARSENIC —



**LEGEND**

- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NO SAMPLE TAKEN
- 0 - 55 ppm BACKGROUND
- 56 - 100 ppm ANOMALOUS
- > 100 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT (none)

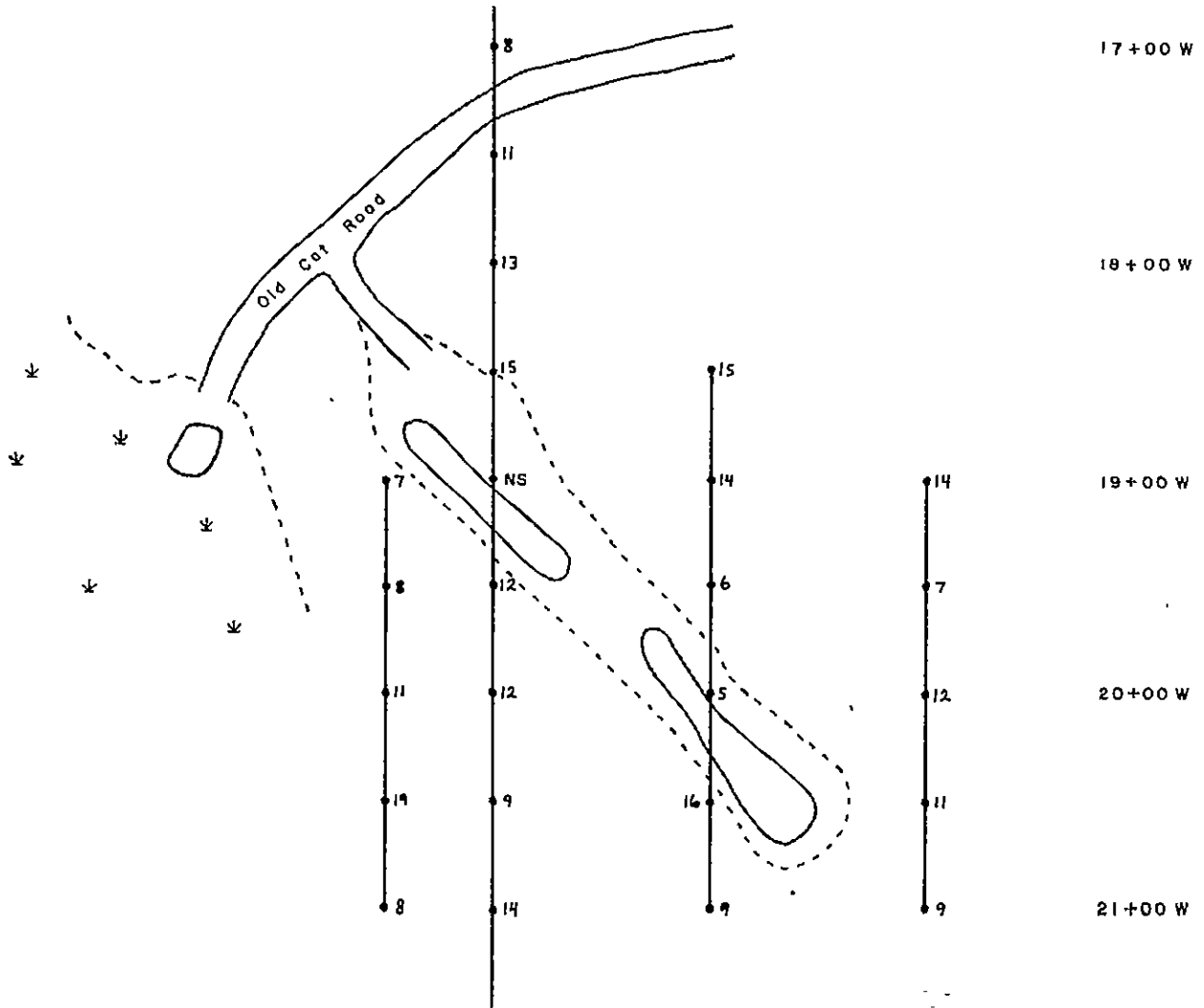


NB Grid is not in metric units

<p><b>CANADIAN UNITED MINERALS INC</b>  <b>DELSANTO PROJECT</b>          DelSanto Grid</p>		
<p><b>FOLLOW-UP SOIL GEOCHEMISTRY</b>          L 6+00N</p>		
<p><b>- COPPER -</b></p>		
<p>PILOT MANAGEMENT INC</p>	<p>March 1988</p>	<p>FIG. 23</p>



L 6+00 N  
L 5+00 N  
L 4+00 N



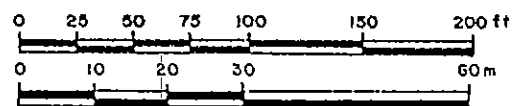
**LEGEND**

- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NO SAMPLE TAKEN

- 0 - 30 ppm BACKGROUND
- 31 - 60 ppm ANOMALOUS
- > 60 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT (none)

SCALE 1:1000

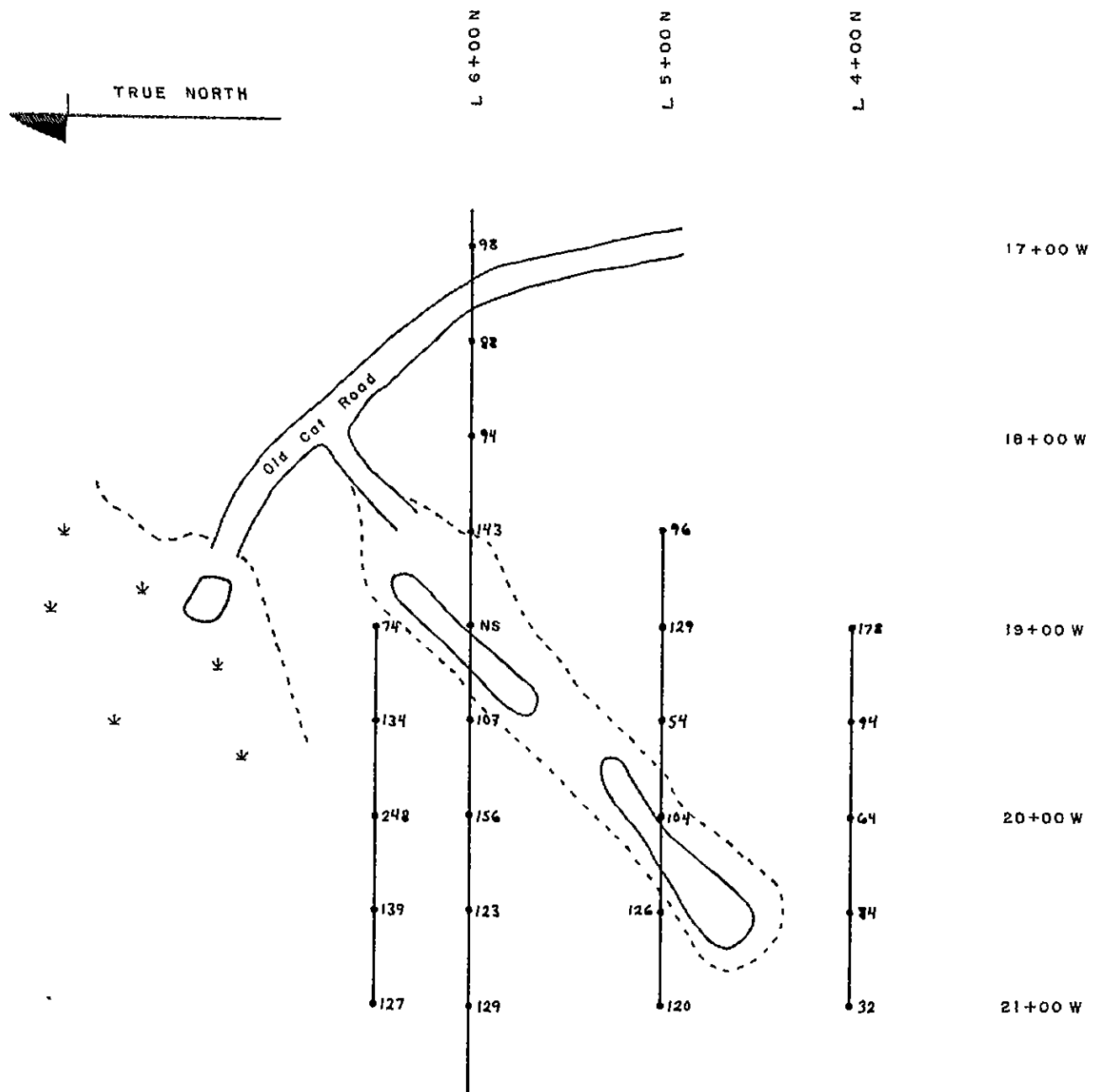


NB: Grid is not in metric units

CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L 6+00 N

—LEAD—



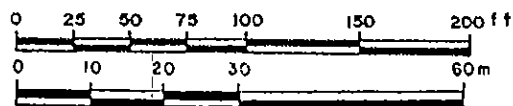
**LEGEND**

- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NS NO SAMPLE TAKEN

0 - 250 ppm BACKGROUND  
 251 - 500 ppm ANOMALOUS  
 > 500 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT (none)

SCALE 1:1000

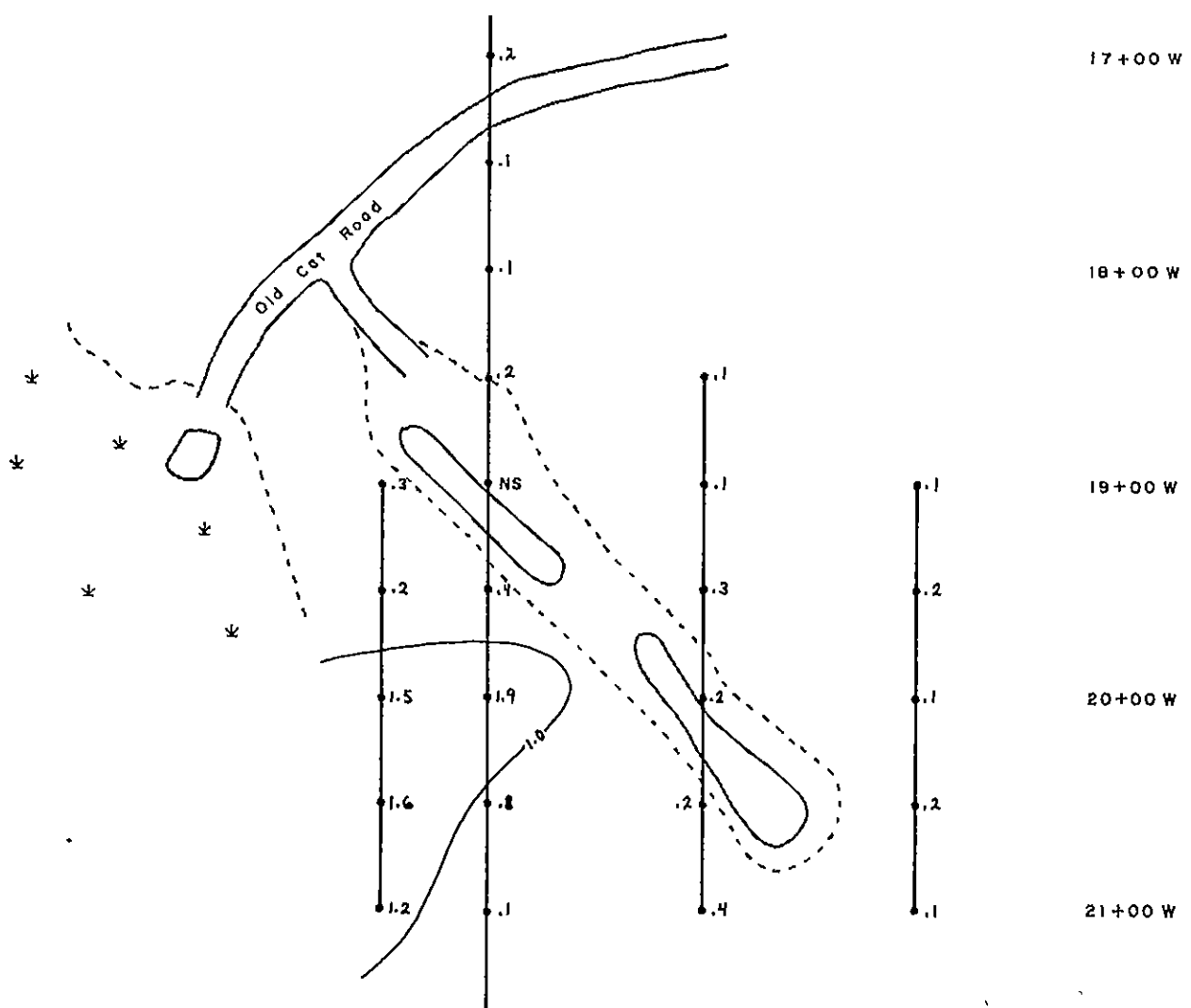


NB. Grid is not in metric units

<b>CANADIAN UNITED MINERALS INC</b> <b>DELSANTO PROJECT</b> DelSanto Grid		
<b>FOLLOW-UP SOIL GEOCHEMISTRY</b> L 6+00N  <b>-ZINC-</b>		
PILOT MANAGEMENT INC	March 1988	FIG. 25



L 6+00 N  
L 5+00 N  
L 4+00 N



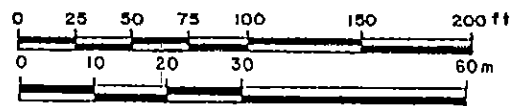
**LEGEND**

- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NO SAMPLE TAKEN

- 0 - 1.0 ppm BACKGROUND
- 1.1 - 2.0 ppm ANOMALOUS
- > 2.0 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 1.0 ppm

SCALE 1:1000



NB Grid is not in metric units.

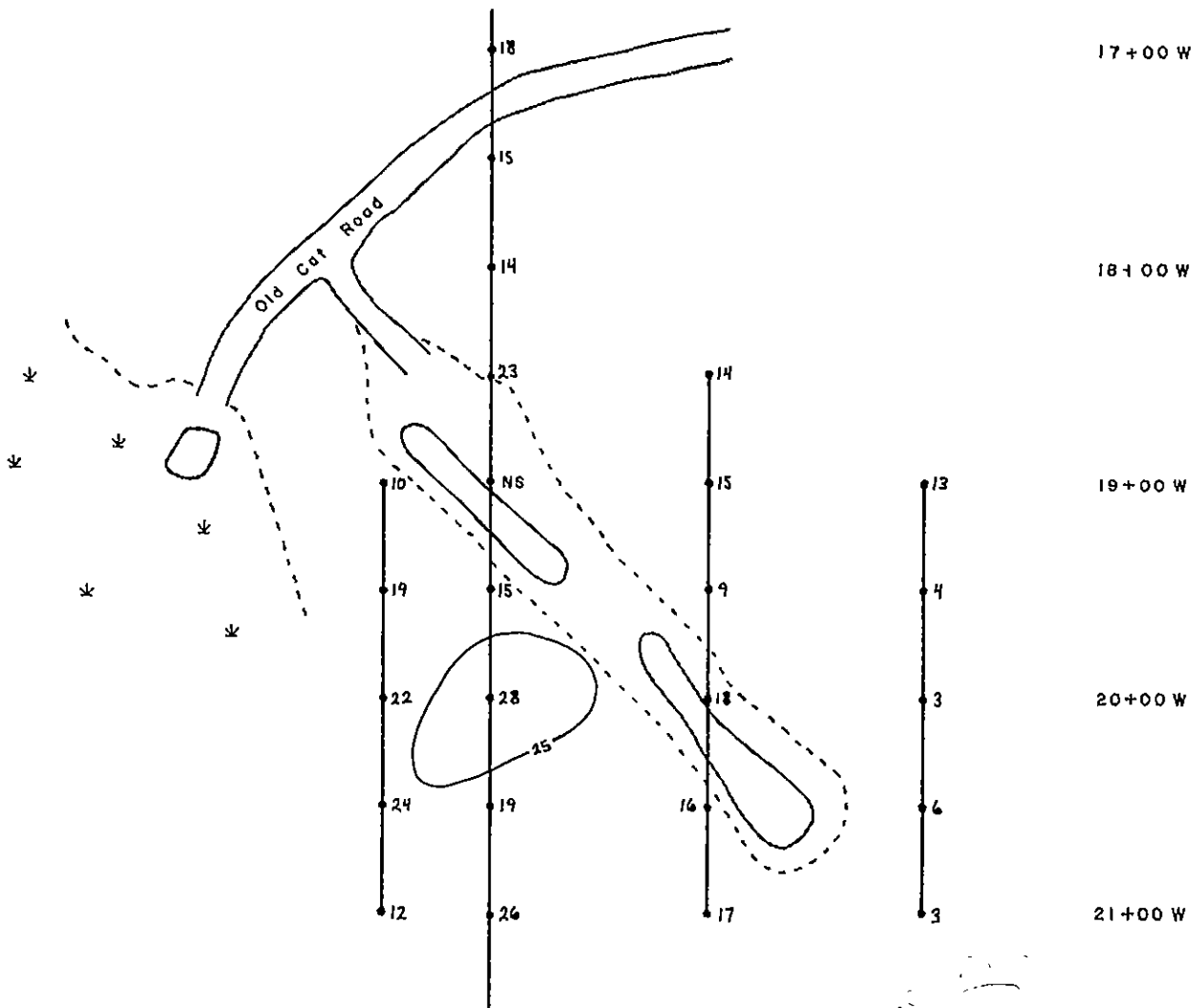
CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L 6+00 N

— SILVER —



L 6+00 N  
L 5+00 N  
L 4+00 N



**LEGEND**

- GRID LINE W/ STATIONS
- OLD CAT TRENCH
- CLEARING
- SWAMP
- NS NO SAMPLE TAKEN
- 0 - 25 ppm BACKGROUND
- 26 - 50 ppm ANOMALOUS
- > 50 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 25 ppm

SCALE 1:1000



NB. Grid is not in metric units

CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L 6+00 N

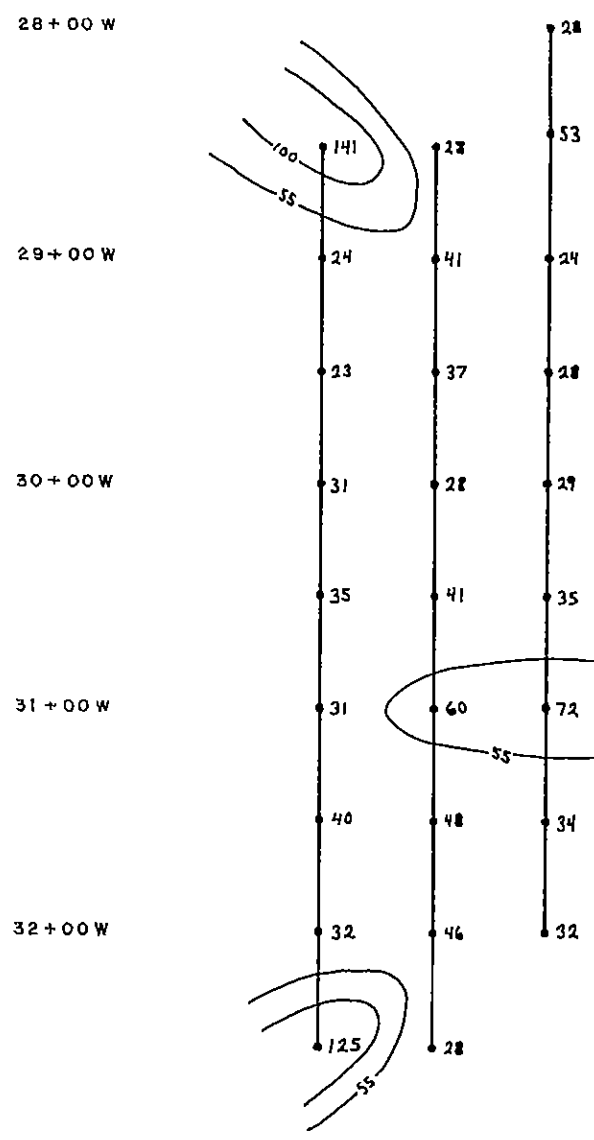
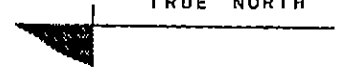
— ARSENIC —



L 14+50N

L 13+50N

TRUE NORTH



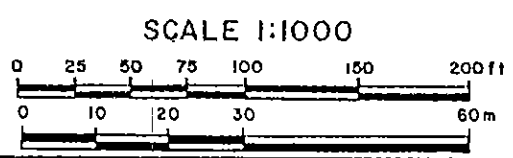
**LEGEND**

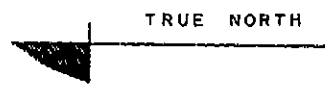
- GRID LINE W/ STATIONS
  - 0 - 55 ppm BACKGROUND
  - 56 - 100 ppm ANOMALOUS
  - > 100 ppm HIGHLY ANOMALOUS
- VALUES CONTOURED AT 55, 100 ppm

NB. Grid is not in metric units.

CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DeSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 14+00 N  
 —COPPER—





L 14+50N  
L 13+50N

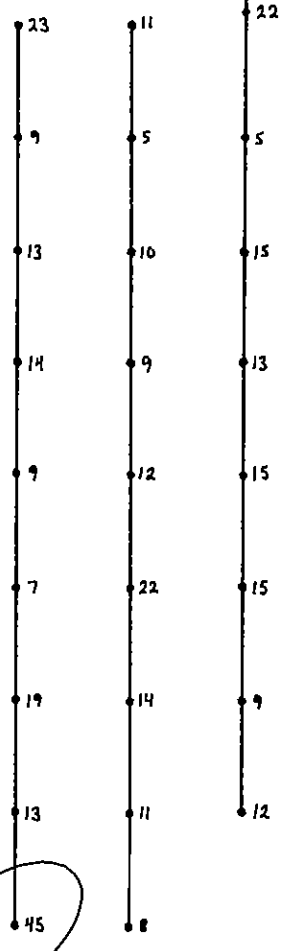
28+00 W

29+00 W

30+00 W

31+00 W

32+00 W



**LEGEND**

- GRID LINE W/ STATIONS
- 0 - 30 ppm BACKGROUND
- 31 - 60 ppm ANOMALOUS
- > 60 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 30 ppm

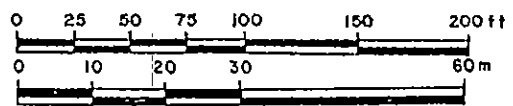
NB Grid is not in metric units

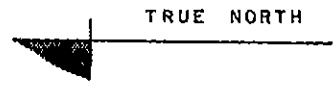
CANADIAN UNITED MINERALS INC  
DELSANTO PROJECT  
DeSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
L 14+00 N

**- LEAD -**

SCALE 1:1000





L 14+50N  
L 13+50N

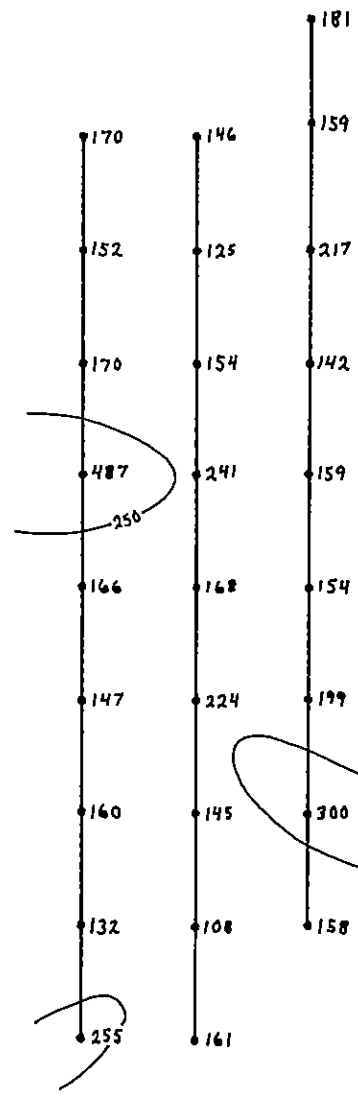
28+00W

29+00W

30+00W

31+00W

32+00W



LEGEND

—●— GRID LINE W/ STATIONS

- 0 - 250 ppm BACKGROUND
- 251 - 500 ppm ANOMALOUS
- > 500 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 250 ppm

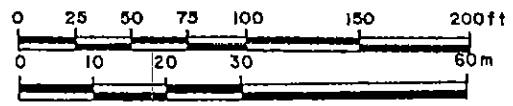
NB. Grid is not in metric units

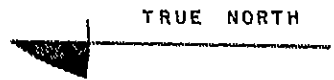
CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DeSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 14+00 N

— ZINC —

SCALE 1:1000





28+00 W

29+00 W

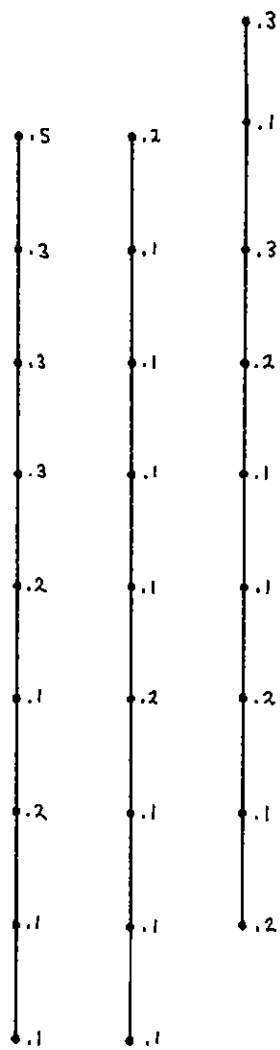
30+00 W

31+00 W

32+00 W

L 14+50 N

L 13+50 N



### LEGEND

—●— GRID LINE W/ STATIONS

0 - 1.0 ppm BACKGROUND

1.1 - 2.0 ppm ANOMALOUS

> 2.0 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT (none)

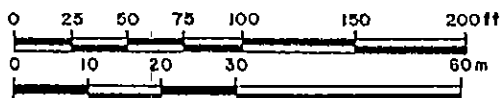
NB. Grid is not in metric units

CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 14+00 N

—SILVER—

SCALE 1:1000



28+00 W

29+00 W

30+00 W

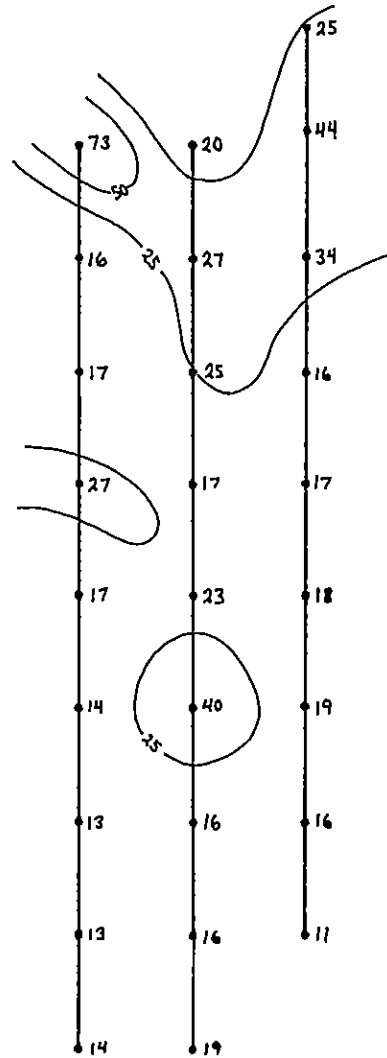
31+00 W

32+00 W

L 14+50 N

L 13+50 N

TRUE NORTH



**LEGEND**

—●— GRID LINE W/ STATIONS

- 0 - 25 ppm BACKGROUND
- 26 - 50 ppm ANOMALOUS
- > 50 ppm HIGHLY ANOMALOUS

VALUES CONTOURED AT 25, 50 ppm

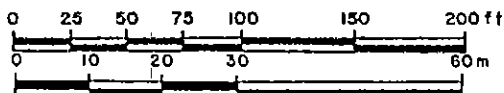
NB Grid is not in metric units.

CANADIAN UNITED MINERALS INC  
 DELSANTO PROJECT  
 DelSanto Grid

FOLLOW-UP SOIL GEOCHEMISTRY  
 L 14+00 N

**- ARSENIC -**

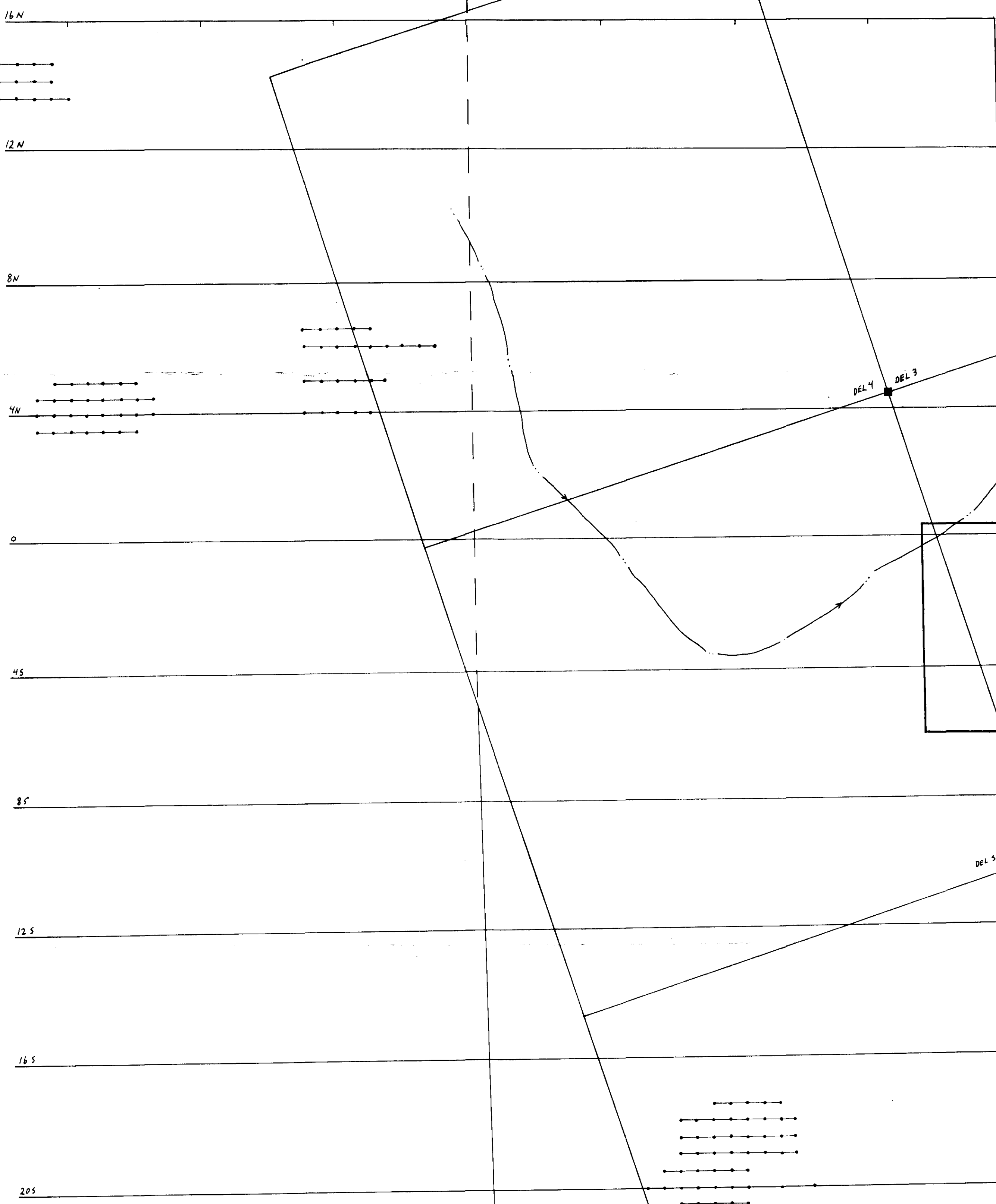
SCALE 1:1000





BURN 6 BURN 4  
BURN 7 BURN 5

28w 24w 20w 16w 12w 8w 4w BLO

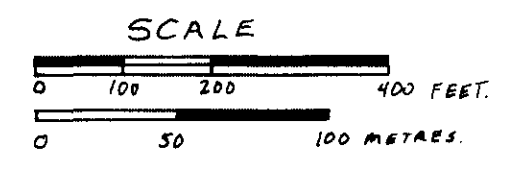


AREA OF  
TRENCHING  
(SEE FIG. 4)

DEL SANTO 2 DEL SANTO 1  
DEL 2 DEL 1

ROAD TO Hwy 16

17,478



DEL SANTO CLAIMS	
GRID LOCATION	
93L/10	FIGURE 33