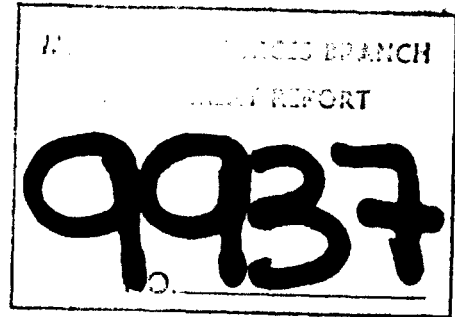


1981 ASSESSMENT REPORT *9937*
GRID CONTROL, GEOPHYSICS, GEOCHEMISTRY *81 11/07*
GEOLOGY AND DIAMOND DRILLING ON THE
LUSTDUST PROPERTY

9937



1981 ASSESSMENT REPORT

GRID CONTROL, GEOPHYSICS, GEOCHEMISTRY
GEOLOGY AND DIAMOND DRILLING ON THE
LUSTDUST PROPERTY (MAIR AND PLINK GROUPS)

OMINECA MINING DIVISION

93N/11 55°34'N 125°25'W

Owner: Zapata Canada, Incorporated

Michael W. Leahey

Operator: Noranda Exploration Company, Limited
(No Personal Liability)

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SUMMARY AND CONCLUSIONS

The 1981 field programme consisted of ground geophysics, soil sampling, geology mapping, and 854 meters of diamond drilling. The ground VLF-EM outlined numerous conductive trends related to carbonaceous and graphitic material in sediments and defined rock contacts. Soil sampling outside the boundaries of the cut grid did not locate any plateau area worthy of further work. Diamond drilling of geology situations, geochem anomalies and geophysical conductors has eliminated the massive sulphides potential; the precious metal vein-type potential has been tested and has neither the high grade nor the continuity required for ore. The areal extent of the soil anomalies south of Canyon Creek can be attributed in part to the disturbance of the soil horizons during the trenching and road building activity of previous exploration work. In addition, the groundwater movement and fixing of metals near the limestone and the above normal background of metals in small veins all contributed to high soil values.

The characteristics of the Lustdust property and the style of mineralization encountered suggest that the mineralization is related to a skarn-type environment. An intrusive complex is located immediately north of Canyon Creek. However the lack of limestone north of the creek and the almost total sulphide as pyrite in LD-80-1 make this a very long exploration shot.

Based on our results the property should be returned to Zapata Canada and the option agreement terminated.

1. INTRODUCTION

The Lustdust property is in north-central B.C. 210 km northwest of Prince George, 144 km northeast of Smithers. The mineral claims stretch north and west of the junction of West Kwanika and Silver Creeks. Elevation within the claim block varies from 1050 m to 1600 m.

Ground access to the property is by the Omineca Road approximately 320 km north from Fort St. James.

Float planes can land within 30 km of the property at Tsayta Lake. Bush roads provide access from the lake to the old workings of the Bralorne Takla Mercury mine and west to the Lustdust property.

Intermittent exploration has been carried on in the area since the early 1940's. The current Lustdust property consists of 100 units divided into two groups--the Mair and Plink groups. Except for the Takla 2 mineral claim, which is privately held, and three units (Wow 1, MV-1, and MV-2) owned by S.J.O. McClay and under option to Zapata Canada Inc., the remaining claims are owned outright by Zapata. Noranda Exploration Company Limited holds the property through an option agreement signed June 24, 1980.

The 1981 field program consisted of the following:

Grid Control	38.57 km
VLF-EM	26.15 km
CEM	18 km
Geochemistry (soils)	722 samples (38.57 km)
Geology	38.57 km
Diamond drilling	6 holes (854 m)

Based on the results of the 1980 and 1981 fieldwork, the potential for economic mineralization on the claim group is slight.



NORANDA EXPLORATION COMPANY LIMITED

PROPERTY LOCATION MAP



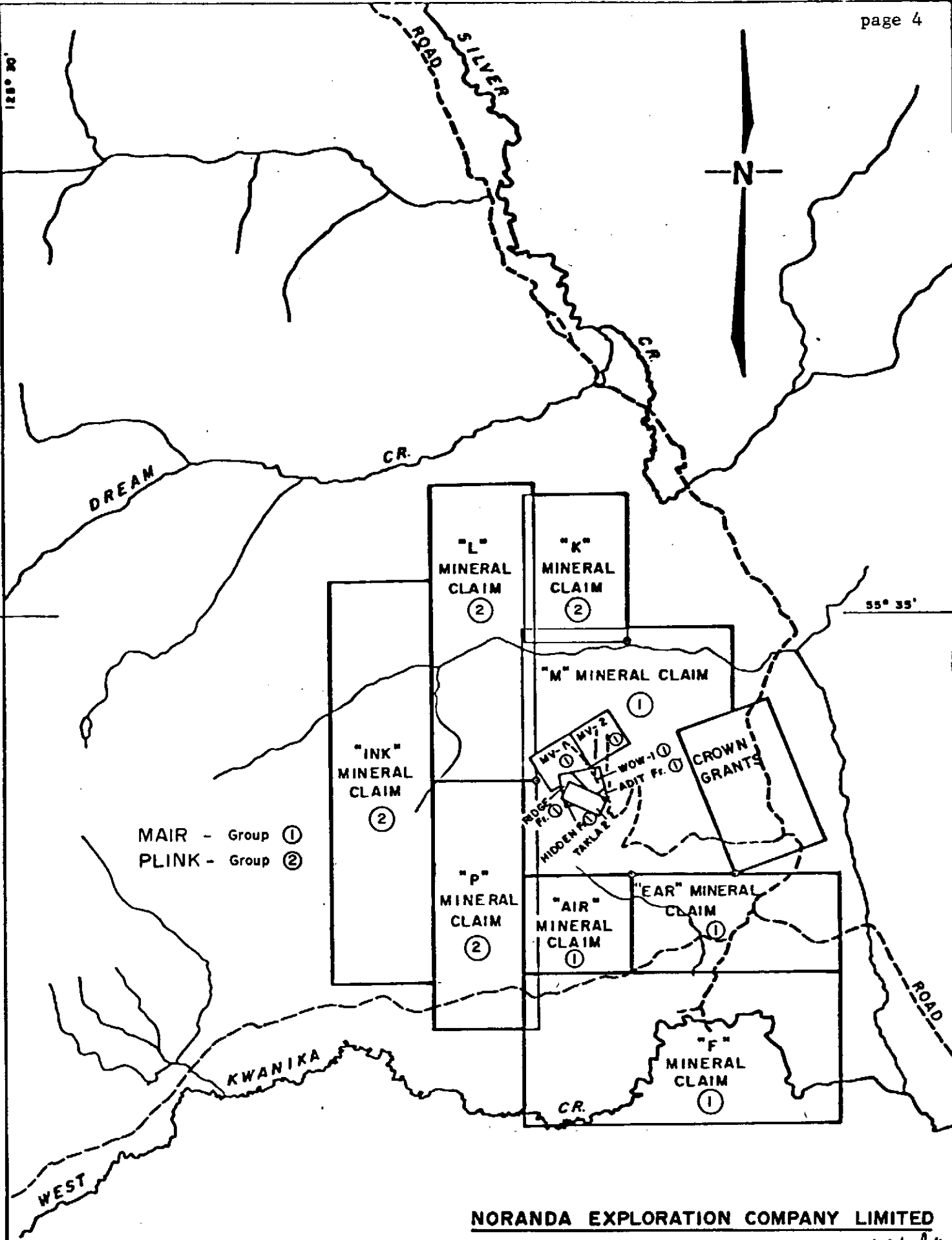
1 : 250,000

Michael W. Lushy
16/12/81

NTS. 93 - N - 11

DEC. 1981

FIGURE 1



MAIR - Group ①
 PLINK - Group ②

NORANDA EXPLORATION COMPANY LIMITED

MINERAL CLAIMS LUSTDUST

M. D. W. Lundy
 12/12/81

2. CLAIM DATA

The Lustdust property is comprised of fourteen mineral claims totalling 100 units and divided into two groups--the Mair and Plink groups. A summary of the claim information follows:

<u>Group</u>	<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Recorded</u>	<u>Anniversary</u>
<u>Mair</u>	M	815	20	Oct. 17, 1977	Oct. 1988
	Air	1482	4	Oct. 11, 1978	Oct. 1989
	Hidden Fr.	2128	1	Oct. 4, 1979	Oct. 1988
	Adit Fr.	2129	1	Oct. 4, 1979	Oct. 1988
	Ridge Fr.	2130	1	Oct. 4, 1979	Oct. 1988
	Ear	2168	8	Oct. 25, 1979	Oct. 1988
	Wow 1	1514	1	Oct. 20, 1978	Oct. 1988
	MV-1	132409	1	Sept. 20, 1974	Sept. 1988
	MV-2	132410	1	Sept. 20, 1974	Sept. 1988
	F	2170	18	Oct. 25, 1979	Oct. 1986
<u>Plink</u>	P	2167	10	Oct. 25, 1979	Oct. 1992
	L	814	12	Oct. 17, 1977	Oct. 1992
	Ink	2169	16	Oct. 25, 1979	Oct. 1992
	K	813	6	Oct. 17, 1977	Oct. 1987

The Lustdust property is controlled by Zapata Canada Incorporated and is under option to Noranda Exploration Company, Limited (No Personal Liability). Statements of Exploration and Development were filed at the Gold Commissioner's office in Smithers on October 7, 1981 under Mining Receipt No. SUSP 889423G. In addition, a Notice to Group for the Plink group was also submitted.

3. GRID CONTROL

A total of 38.57 km of compass and pace control and grid lines was established outside the 1980 cut grid. The lines were run east-west, were 125 m apart and marked every 50 m with station flags. The lines were turned off from control points on the 1980 grid, and the same numbering system was carried forward.

4. GEOPHYSICS

Ground geophysics consisted of VLF-EM and CEM surveys on the reconnaissance grid. All maps of this grid were marked as Lustdust Regional and Project 1045 in their title blocks. This work was undertaken on the "L," "P," "Ink," "Air," and "Ear" mineral claims.

4.1 VLF-EM

As follow-up to airborne VLF-EM anomalies, 26.15 kilometers of grid were surveyed with a Crone Radem VLF-EM unit. The transmitter station utilized was Seattle, Washington (18.6 KHz). Readings were taken at 25 m intervals of the dip angle and the horizontal component of the field strength. The field data of the dip angle is shown on Fig. 3 (the vertical scale is 1 cm = 20°). The horizontal field strength is shown on Fig. 4. (The Radem meter has two ranges, 0-300% and 0-600%; only one reading was indicated greater than three hundred.) Filtered results (Fraser 1969) of the dip angle readings are plotted on Fig. 5.

In addition, a new map, Fig. 6 Lustdust VLF-EM Filtered Data replaces the 1980 Assessment Report Fig. 6.2; the contours are the same, but a plotting error of 50 m west is readily apparent in the original drafting.

All three maps show the existence of numerous north- to north-northwest-trending conductors. At the eastern edge of the grid a strong conductive trend marks the major Pinchi Fault zone. Six VLF conductors occur on the south grid delineating sheared carbonaceous and graphitic phyllites. The additional long conductors correlate with major sedimentary and volcanic contacts. Again in the northwest section

of the grid the contact zone between volcanics and sediments is evident near the western end of the grid lines. The remaining conductors can be correlated with the graphite-bearing sediments. In summary, VLF-EM provided useful mapping.

4.2 CEM

A total of 18 km of grid was surveyed by co-axial shootback CEM. The coil spacing was of 100 m and readings were at 25 m intervals.

For the most part the survey produced negative readings with only local and weak positive peaks evident. The wide area of similar readings can be attributed to the distribution of carbonaceous and graphitic material throughout bedrock.

5. GEOCHEMISTRY

A total of 722 soil samples was collected on the grid at 50 m intervals. Samples were taken from the "B" soil horizon at depths varying between 20 and 30 cm. For each a soil type card was completed that gave co-ordinates, colour, composition, moisture, horizon, depth horizon and ground slope. All samples were subsequently forwarded to Noranda Exploration's Vancouver lab where they were analysed under the direction of Evert van Leeuwen.

The analysis of the soil material to determine the lighter transition elements (Cu, Mo, Zn, Pb, Ag, Mn and Fe) was carried out by decomposition with a perchloric plus nitric acid mixture.

The soil samples were dried at 80⁰C between twenty-four and forty-eight hours. The samples were then sieved to -80 mesh with nylon screens (the +80 mesh material was discarded).

For each sample 0.4 grams of the -80 material was weighed, digested with 4 ml of perchloric acid (70%) plus nitric acid (4 + 1) for four hours

at reflux temperature. After digestion each sample was diluted to 10 ml with water. Concentrations of the element within the sample were determined on an atomic absorption Varian AA-475 unit. Iron values are expressed as a percentage, and all other elements are expressed as parts per million.

The determination of arsenic was carried out with a hydride vapour generation accessory (Varian M-65). A hydride was formed by sodium borohydride reaction with an acidified solution of the sample. This procedure enabled measurement of trace quantities by atomic absorption.

Results of soil geochemistry for the eight elements determined were plotted on Fig's. 8, 9, and 10.

Copper anomaly threshold was set at 100 ppm; maximum value encountered was 400 ppm. Anomalies are located on L32 + 50N and 33 + 75 centered at 35 and 34 + 50W respectively. A second anomaly occurred on L25N and 26 + 25N centered near 40W. Off the southwest corner of the cut grid five two-line and three-line anomalies occur.

A molybdenum value of 10 ppm was set as anomalous. Most molybdenum values coincide with copper anomalies. The most extensive moly anomaly is located near the end of L32 + 50 and 33 + 75N; 26 ppm was the highest molybdenum value.

Arsenic threshold value was set at 300 ppm. Two anomalies occur on the grid, one on L2 + 50S and 1 + 25S at 7 + 00W and the second on L23 + 75N and 25 + 00N at 25W. Maximum value encountered was 600 ppm.

The zinc anomaly threshold was 500 ppm; the maximum value encountered was 1500 ppm. Two anomalies occur on L23 + 75N and 25N at 34 + 00W and 36 + 00W. Another spot high occurred on L30 + 00W west of TL38 + 00W. On L1 + 25S, 7 + 50W a one value peak of 600 ppm closes off an anomaly from 1980.

Lead anomaly threshold was taken at 50 ppm. There are three spot anomalies on the grid; the first on L25 + 00N at 34 + 00W, the second on L32 + 50N at 38 + 50W, and the third at L33 + 75N at 41 + 50W.

A silver value of 2 ppm was considered anomalous. All high silver values are restricted to the northeast corner of L32 + 50N and 33 + 75N.

Threshold values for iron and manganese were established at 3% and 1000 ppm, respectively.

The anomalous values all seem to be correlating with dykes and other intrusives. The soil geochemistry did not outline any areas with anomalous plateau values similar to the known expression of mineralization on the cut grid. Further work on the recce grid anomalies is not warranted.

6. REGIONAL GEOLOGY

The area was mapped in the 1940's by Armstrong (Map 844A) at a 1 to 4 mile scale for the Geological Survey of Canada. He defined the Cache Creek Group of rocks (that underlie the Lustdust property) as a conformable sequence of interbedded sedimentary and volcanic rocks and their derived schists. The total thickness of Cache Creek was estimated as greater than 3000 meters.

A more recent survey was undertaken by Paterson (G.S.C. Paper 74-1, Part B) in 1974. Part of the Cache Creek Group as mapped by Armstrong (1949), Paterson has included in the Upper Triassic Takla Group. An ultramafic belt forms the western boundary of the Cache Creek Group; the eastern boundary of the group is the Pinchi Fault.

7. PROPERTY GEOLOGY

The 1981 field mapping (Fig. 11) was carried out by Paul McCarter. Rock types encountered were similar to those previously described.

Schist and phyllites comprise the oldest unit. These are grey to dark grey micaceous schist and phyllite with graphitic sections, schist and phyllite with greater than 10% felsic bands, and siliceous schist and phyllites with minor chert.

The second major unit consisted predominantly of andesite, minor basalt, and dacite. The unit corresponds to the "greenschist" of other authors. The volcanics had vascular tops and pillow-like structures suggestive of a flow origin.

There were only three outliers of limestone on the reconnaissance grid. Its relationship to the other sediments and volcanics could not be determined. In the 1980 mapping the limestone was considered older than the volcanics but younger than the sediments.

Intrusive rocks encountered include felsite, inequigranular quartz monzonite, and feldspar-biotite[±]hornblende porphyry. The intrusives, for the most part, are dykes or narrow sill features. Near TL30W the feldspar-biotite porphyry marks the western end on an intrusive complex confirmed by the 1981 drilling.

Both the sediments and volcanics displayed schistosity or foliation with a steep westerly dip and a north-northwest strike. One locality was found with bedding at twenty degrees and a fifty-eight degree northwest dip. Drag-folds with both north and south dip were located in the northern grid.

Mineralization consisted of pyrite in quartz veins and disseminated near contact in the andesites. No other sulphides were located in the survey.

8. DIAMOND DRILLING

The core is stored near Line 16 N, 20 W, and the main road on the property.

Diamond drilling was undertaken to test surface mineralization of Zones 2 and 3, the Granby 1979 intersection and coincident geophysical and geochemical features.

Between September 2 and October 24, 1981, 854 meters of BQ diamond drilling was cored in eight holes on the Lustdust property. The contractor was Drilcor Industries of #18 - 12871 Bathgate Way, Richmond, B.C. Diamond drill logs for holes LD-81-3 to LD-81-8 are enclosed at the end of this section. A summary of drill details for each hole follows:

1981 Summary of Diamond Drilling

<u>Group</u>	<u>Claim Name</u>	<u>D.D.H.</u>	<u>Co-ordinates</u>	<u>Depth</u>
Mair	M	LD-81-3	16+46N, 18+37W	110.5 m
Plink	L	LD-81-4	15+90N, 22+50W	156.12 m
Plink	K	LD-81-5	26+00N, 19+00W	137.02 m
Plink	L	LD-81-6	29+00N, 23+50W	152.40 m
Mair	MV-2	LD-81-7	14+00N, 16+25W	153.62 m
Plink	K	LD-81-8	34+00N, 14+50W	144.17 m

8.1 Diamond Drill Hole LD-81-3

LD-81-3 was drilled to test gold surface mineralization, Zone 3 extension, between the two trenches K3 and K4. The reported precious metal values from the trenches are:

	<u>Channel</u>	<u>Au</u> oz/ton	<u>Ag</u> oz/ton	<u>Zn</u> %
K3	0-6'	0.22	0.43	0.20
	6-12'	0.30	0.55	1.00
	12-18'	0.03	1.20	tr.
K4	0-11'	0.11	3.20	0.46

Values of gold in the drill hole were low, ranging from 0.001 to 0.003 oz/ton; silver ran from 0.40 to 1.72 oz/ton with 0.38% lead. The assayed core was from limestone breccia and phyllite.

LD-81-3 Assay Results

<u>Sample</u>	<u>Interval</u>	<u>Cu</u> %	<u>Pb</u> %	<u>Zn</u> %	<u>Au</u> oz/t	<u>Ag</u> oz/t	<u>Sb</u> %
Y6876	56-57 m	0.01	0.38	0.04	0.002	1.72	----
Y6877	64.4-65.4	0.01	0.38	0.02	0.001	1.62	----
Y6878	70.8 (grab)	0.01	0.10	0.02	0.003	0.40	----

8.2 Diamond Drill Hole LD-81-4

LD-81-4 was 300 meters south of Granby's 1979 intersection, and tested the continuity of their indicated mineralization (1.5 m of 6% combined Pb/Zn and 2.48 m of 19.80 Zn). Mineralization encountered was restricted to small sulphide veins, the majority being pyrite- and pyrrhotite-bearing. It is believed the mineralization is of an erratic nature and is either faulted off or localized.

LD-81-4 Assay Results

<u>Sample</u>	<u>Interval</u>	<u>Cu</u> %	<u>Pb</u> %	<u>Zn</u> %	<u>Au</u> oz/t	<u>Ag</u> oz/t	<u>Sb</u> %
Y6751	37.30-37.80 m	0.02	0.08	0.06	0.008	0.14	----
Y6752	58.8-59.3	0.06	0.50	0.10	0.023	0.42	----
Y3501	99.52	0.06	----	----	0.026	0.12	0.07
Y6753	100-101	0.01	0.02	0.02	0.001	0.04	----
Y6754	103.0-103.5	0.01	0.18	0.02	0.001	0.14	----
Y6755	135.30 (grab)	0.02	0.02	0.02	0.004	0.06	----
Y6756	151.9-152.4	0.01	0.02	0.02	0.001	0.06	----
Y6757	155.12-156.12	0.01	0.02	0.02	0.001	0.08	----

8.3 Diamond Drill Hole LD-81-5

LD-81-5, the first hole north of Canyon Creek, tested an isolated CEM conductor, strong magnetic relief, and a lead/arsenic soil anomaly. The hole encountered graphite and carbonaceous sediments and pyrite and pyrrhotite veins with minor sulphides. The highest grade vein material (4 cm) assayed 0.86% Pb, 3.76% Zn, and 1.34 oz/ton Ag.

See the following page for assay results for this hole.

LD-81-5 Assay Results

<u>Sample</u>	<u>Interval</u>	<u>Cu</u> %	<u>Pb</u> %	<u>Zn</u> %	<u>Au</u> oz/t	<u>Ag</u> oz/t	<u>Sb</u> %
X5276	37.09-37.13	0.06	0.86	3.76	0.002	1.34	----
X5277	83.79-88.44	0.03	0.10	0.16	0.001	0.10	----
X5278	86.65-86.85	0.01	0.02	0.02	0.001	0.04	----
X5279	112.25-112.48	0.04	0.02	0.08	0.002	0.08	----
X5280	113.44-113.56	0.10	0.02	0.02	0.001	0.14	----
X5281	113.86-113.96	0.03	0.02	0.02	0.001	0.06	----
X5282	123.26-123.46	0.02	0.02	0.02	0.001	0.06	----
X5283	125.70-125.75	0.01	0.02	0.02	0.001	0.04	----
X5284	125.98-126.13	0.02	0.02	0.02	0.001	0.06	----
X5285	126.33-126.40	0.10	0.04	0.02	0.007	0.26	----

8.4 Diamond Drill Hole LD-81-6

LD-81-6, also north of Canyon Creek, was drilled to test the contact (skarn) zone around a proposed intrusive and an isolated lead/arsenic anomaly. The zone (approximately 1 m) at the intrusive sediment contact gave 0.036 oz/ton gold and 0.52 oz/ton silver with 0.01% copper.

LD-81-6 Assay Results

<u>Sample</u>	<u>Interval</u>	<u>Cu</u> %	<u>Pb</u> %	<u>Zn</u> %	<u>Au</u> oz/t	<u>Ag</u> oz/t	<u>Sb</u> %
Y7480	73.15-73.46	----	----	----	0.001	0.02	----
Y7481	136.86	0.01	----	----	0.036	0.52	----

8.5 Diamond Drill Hole LD-81-7

LD-81-7 was drilled to test for an extension of the Zone 2 mineralization. The hole was spotted within a large lead/arsenic anomaly and on the west flank of a silver soil anomaly (5 ppm). Small veins assayed higher silver, zinc, and antimony values.

LD-81-7 Assay Results

<u>Sample</u>	<u>Interval</u>	<u>Cu</u> %	<u>Pb</u> %	<u>Zn</u> %	<u>Au</u> oz/t	<u>Ag</u> oz/t	<u>Sb</u> %
Y8751	3.66-3.78	0.01	0.02	0.06	0.001	0.08	----
Y8752	150.57-150.69	0.01	----	1.60	0.013	0.10	----
Y8753	152.10-152.23	0.01	----	0.68	0.014	0.20	0.44
Y8754	152.40	----	----	----	0.001	0.02	0.02

8.6 Diamond Drill Hole LD-81-8

LD-81-8, the last hole drilled, was designed to test strong CEM and VLF conductors in the Pinchi Fault zone. Since it is on strike with the Takla mercury mine the hole was also to investigate the potential of structural traps for cinnibar deposits. The hole encountered mostly phyllite breccia with chert and graphite sections; it was terminated in limestone. No material from this hole was assayed.

9. REFERENCES

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- James, D.H. (1978): Report on the Lustdust Property, Internal Report of the Granby Mining Corporation.
- (1978): Summary of Various Reports, Internal Report.
- Paterson, I.A. (1974): Geological Survey of Canada Paper 74-1, Part B.
- Prest, S.E. (1980): Lustdust Assessment Report on Linecutting, Geological, Geophysical, Geochemical and Diamond Drill Work.
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NORANDA EXPLORATION COMPANY, LIMITED

Collared Sept. 6/81	Completed Sept. 8/81	Core Size BQ	Property LUSTDUST	Project No 1035	NTS No. 93N/11
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 16 + 46N	Elev. 1440 m	Dip -60°	Lat.	Elev.	Dip
Dep. 18 + 37W	Depth 110.5 m	Bearing 070°	Dep.	Depth	Bearing
					Hole No. LD-81-3

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-3.6			<u>CASING</u> ; no recovery.								
3.6-53.5	95%		<u>LIMESTONE</u> ; grey-black, v.f.g.; weakly brecciated with large angular limestone fragments cemented with multidirectional whispy-like calcite veinlets; occasional thin limonite coatings on fracture planes especially at 26.1-26.9, 29.0 and 32.9 (most fractures are 30° to C.A.); weakly developed 40° laminations in less brecciated sections especially noticeable at 9.3 m; unit texture suggests recrystallization.								
53.5-53.7	90%		<u>PHYLLITE</u> ; light grey-green; v.f.g.; epidote and chlorite banding ~45° to C.A.; abrupt contacts; ~2% Py with trace Po throughout section.								
53.7-55.7	95%		<u>LIMESTONE BRECCIA</u> ; as described above.								
55.7-56.1	95%		<u>PHYLLITE</u> ; black, with white mottled bands at 35° to C.A.; v.f.g.; frequently hematitic and limonitic at randomly oriented fracture planes. Core is frequently blocky from								

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 3			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-3			
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
			56.1 m to 60.9 m and occasionally contains 1% Py and Po												
			in darker bands.												
56.1-59.5	90%		<u>LIMESTONE BRECCIA</u> ; as above with very frequent limonite												
			coatings on fractures.						Y-6876	1 m	0.01	0.38	0.04	0.002	1.72
59.5-65.3	90%		<u>PHYLLITE</u> ; as above becoming more fractured.						Y-6877	1.65	0.01	0.38	0.02	0.001	1.62
65.3-69.7	70%		<u>ARGILLITE</u> ; light grey, v.f.g., weakly mottled, strongly												
			sheared; prominent clay development causing some difficulty												
			in drilling; gradational contacts with above; abundant												
			calcite veinlets.												
			71.3 - 10 cm clay layer.												
			65.3 - end of significant limonitic fractures.												
			65.3-67.3 - ~2 m lost core.												
69.7-69.0	95%		<u>LIMESTONE</u> ; massive, with coarsely brecciated sections;						Y-6878	grab	0.01	0.10	0.02	0.003	0.40
			v.f.g., black, with similar features to above limestone units.												
69.0-605.8	90%		<u>PORPHYRITIC QTZ. FELDSPAR DIKE ROCK</u> ; med. gr., grey with												

DATE _____ LOGGED BY _____

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property LUSTDUST	Project No 1035	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Sheet 3 of 3
					Hole No. LD-81-3

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
			<20% 2 mm feldspar phenocrysts commonly altered to clay especially near upper contact. Occasional lenticular hornblende crystals showing a decussate fabric. Slight foliation developed at 75° to C.A.; wispy calcite veinlets are displayed less commonly throughout; <1% Py and Po disseminated throughout section and in thin veinlets along fractures.										
			99-99.9 - ~0.5 m lost core.										
105.8-110.5			<u>LIMESTONE</u> ; as previously described.										
110.5			E.O.H. (335 feet)										
			** Drilled to test reported gold-bearing sulphide mineralization in surface trenching along Zone 3 extension.										

NORANDA EXPLORATION COMPANY, LIMITED

Collared Sept. 9/81	Completed Sept. 13/81	Core Size BQ	Property LUSTDUST	Project No 1035	NTS No. 93N/11W
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 15 + 90N	Elev. 1505 m	Dip -50°	Lat.	Elev.	Dip
Dep. 22 + 50W	Depth 156.12 m	Bearing 070°	Dep.	Depth	Bearing
					Sheet 1 of 5
					Hole No. LD-81-4

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-2.13			<u>OVERBURDEN</u> ; 3.04 m casing								
2.13-4.48			<u>LOST CORE</u>								
4.48-7.92	30%		<u>PORPHYRITIC QTZ.-FELDSPAR DIKE ROCK</u> ; light grey, med. grained with prevalent hematitic fractures; ~10% disseminated pyrite and 15% subhedral feldspar phenocrysts in a grey f.g. quartz feldspar matrix; weak sericite and kaolinite alteration.								
7.92-13.4	95%		<u>PHYLLITE</u> ; grey-black, f.g. with white quartz and calcite irregular, sinusoidal bands up to 1 cm thick; bedding is ~60° to 70° to C.A.; blacker beds are more carbonaceous, chloritic and friable.								
13.4-13.7	95%		<u>PORPHYRITIC QUARTZ-FELDSPAR DIKE ROCK</u> ; as previously described with >10% disseminated Py.								
13.70-19.10	99%		<u>PHYLLITE</u> ; grey-black, as previously described with exception of pyrite appearing on fractures.								
19.10-22.30	98%		<u>LIMESTONE</u> ; light grey, fine grained and massive; partially								

DATE September 13, 1981 LOGGED BY S.E. Prest

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 5			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-4			
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
			recrystallized; weak laminations discernable at ~60° to												
			C.A.; occasional limonitic and hematitic fractures.												
22.30- 47.49	90%		<u>PHYLLITE</u> ; see above descriptions of phyllite unit; bedding												
			~45-85° to C.A. and becomes slightly brecciated with in-												
			creasing depth; frequent Py and Po bands and blebs confor-												
			mable to bedding over entire section; unit occasionally con-												
			tains carbonaceous material especially along shear planes.												
			25.29 - intense silicification over 10 cm.												
			24.90 - 5 cm band of massive sulphides intersecting C.A.												
			at 45°, consisting of 5% Py, 80% Po and 15% Qtz and feldspar.												
			33.53-33.93 - lost core.												
			38.55-38.70 - band of massive Qtz; Py-Po with trace						Y-6751	0.5m	0.02	0.08	0.06	0.008	0.14
			sphalerite in veinlets rimming Po. (Pyrite is disseminated												
			as 2 mm anhedral blebs in a massive Po matrix.)												
			59.0 - 6 cm section of massive Qtz-Po-Py-Sph at 45° to C.A.						Y-6752	0.5m	0.06	0.50	0.10	0.023	0.42

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NORANDA EXPLORATION COMPANY, LIMITED

Collared			Completed			Core Size			Property LUSTDUST			Project No 1035			NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 5							
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.							
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-4							
metres	Rec'y	Graphic Log	Description						% Sulp.	Est. Grade	Sample No.	Lt.	Cu	Pb	Zn	Au	Ag	SI	
			65.53 - ~1% Cpy over 5 cm phyllite section; unit above																
			and below contact is barren of Cpy but continues to carry																
			weakly disseminated Po.																
			74.6 - trace Cpy.																
			88.82 - unit appears increasingly cherty with greater depth.								Y-3501		0.06			0.026	0.12	0.0	
			100.00 - 1 cm band of Qtz-Po intersecting core at 45°.								Y-6753	1 m	0.01	0.02	0.02	0.001	0.04		
			100.80 - 2 cm band of massive Po with <0.5% coarsely dis-																
			seminated Cpy intersecting core at 70°.																
			103.10 - 1 cm band of massive Py containing 1 cm blob of								Y-6754	0.5m	0.01	0.18	0.02	0.001			0.14
			graphite bordered by Py veinlets conformable to 50°																
			cherty bedding planes.																
			112.90 - 1 cm vein of Po 45° to C.A. and perpendicular to																
			bedding.																
			120.60 - localized small amounts of arsenopyrite.																
			135.30 - 5 cm section of ~10% Py, 3% Py and <1% arsenopyrite.								Y-6755	grab	0.02	0.02	0.02	0.004	0.06		

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NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 5				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.				
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-4				
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
			142.50 - 5 mm veinlet of Po, trace Cpy at 50° to C.A. and parallel to bedding.													
			144.17 - 5 mm band of Po.													
			144.90 - kink banding over 10 cm width.													
147.49- 149.10	98%		<u>MAFIC TO INTERMEDIATE VOLCANIC DIKE ROCK</u> ; grey-green, fine grained with weak schistosity developed ~40° to C.A.; very weak chlorite and sericite alteration.													
149.10- 154.5	95%		PHYLLITE; silicified, med. grained mottled texture and weakly brecciated by Qtz. veinlets; most siliceous zones are conformable to bedding but occasionally do cut bedding and shear planes at random angles. Very weakly disseminated Py and Po only.							Y-6756	0.5m	0.01	0.02	0.02	0.001	0.06
154.50- 156.12	98%		<u>LIMESTONE</u> ; light grey, v.f.g., partially recrystallized; abrupt upper contact; ~1% disseminated Py, Po and trace Cpy veinlets at 45° to C.A. and conformable to bedding.							Y-6757	1 m	0.01	0.02	0.02	0.001	0.08

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NORANDA EXPLORATION COMPANY, LIMITED

Collared Sept. 14/81	Completed Sept. 21/81	Core Size BQ	Property LUSTDUST	Project No 1035	NTS No. 93N/11
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. 26 + 00N	Elev. 1325 m	Dip -50°	Lat.	Elev.	Dip
Dep. 19 + 00W	Depth 137.02 m	Bearing 250°	Dep.	Depth	Bearing
					Sheet 1 of 7
					Hole No. LD-81-5

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-1.54			<u>OVERBURDEN</u> ; lost core-casing.								
1.54-2.24	80%		<u>INTERMEDIATE TO MAFIC VOLCANIC</u> ; a fine grained, light green-grey massive volcanic; small non-orientated needles of hornblende (1-2 mm) dispersed throughout core section; very small flecks of Po and Py are evident.								
2.24-2.35	90%		<u>PHYLLITE</u> ; a black graphitic rich rock; slightly brecciated with small amounts of Py and Po; the small angular clasts are composed of quartz, calcite and plagioclase.								
2.35-3.10	95%		<u>INTERMEDIATE TO MAFIC VOLCANIC</u> ; as described previously, but the hornblende crystals are not present; disseminated flecks of Py and Po are evident; it appears to be getting more siliceous.								
3.10-3.65	90%		<u>CONTACT ZONE</u> ; a contact zone exists between the phyllite and volcanic units; the zone consists of a brecciated volcanic with graphitic clasts interdispersed with								

DATE September 27, 1981 LOGGED BY George Owsicki

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property LUSTDUST	Project No 1035	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Sheet 2 of 7
					Hole No. LD-81-5

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
			the volcanic clasts; small amounts of Py mineralization								
			is present.								
3.65- 15.45	95%		<u>PHYLLITE</u> ; a dark grey to black rock with layers of brecciated quartz and calcite fragments at 60° to the core axis; widely disseminated Py and Po with trace amounts of Cpy throughout this section.								
15.45- 19.59	95%		<u>INTERMEDIATE VOLCANIC</u> ; a greyish-green, fine grained, siliceous rich massive volcanic; finely disseminated Po and Py occur throughout this length.								
19.59- 103.80	95%		<u>PHYLLITE</u> ; a black to grey graphitic rich phyllite; brecciated quartz and calcite laminations are at 60° to core axis; small localities of disseminated Py, Po and trace amounts of Cpy mineralization; rich carbonaceous zones are dispersed throughout the core; chlorite alteration is also evident.								

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 7			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-5			
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu	Pb	Zn	Au	Ag
			37.09-37.13 <u>Vein</u> ; Py and specularite (hematite); 50° to				80	<0.1	X5276	4 cm	0.06	0.86	3.76	0.002	1.34
			core axis and intersects brecciated quartz laminations												
			at 80°; 3 cm in width.												
			40.45-40.64 <u>Quartz Vein</u> ; massive white quartz with well-												
			developed euhedral crystals of Py.												
			80.34-80.64 <u>Siliceous Rich Zone</u> within the phyllite unit.												
			83.79-83.84 <u>Vein</u> ; Py and Po and hematite and minor				85	<1	X5277	5 cm	0.03	0.10	0.16	0.001	0.10
			amounts of Cpy; 1.5 cm thick; a layer of Po and Py minera-												
			lization of 7 mm thickness overlies a thin layer (3 mm)												
			of Cpy; the vein system intersects core axis at 58°; it												
			cross-cuts the brecciated quartz laminations at 80°.												
			86.65-86.85 <u>A Small Veinlet</u> (3-5 mm) of Po and Py minera-				90	0.1	X 5278	20cm	0.01	0.02	0.02	0.001	0.04
			lization with trace amounts of Cpy; 82° to core axis and												
			intersects the phyllite at 65°.												
			87.56-87.73 <u>A Small Vein</u> (1-2 mm) of Py and minor Po												

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 7				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.				
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-5				
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
			mineralization; 82° to core axis and intersects the phyllite													
			at 49°.													
			101.87 <u>A Bleb</u> of Po and Cpy mineralization; no evidence													
			on continuation.													
103.80-110.80	95%		<u>INTERMEDIATE TO MAFIC VOLCANIC</u> ; a fine-grained, green													
			siliceous rich, massive volcanic; Po and Py is widely dis-													
			persed throughout the core length.													
			103.98-104.05 <u>Localized Mineralization</u> : two blebs of Py													
			and Po found (no specific orientation).													
			104.72-110.80 <u>Very Small Veinlets</u> (1 mm) of Po and Py													
			mineralization is evident throughout this section.													
110.80-135.49	95%		<u>PHYLLITE</u> ; as described in the previous section.													
			112.25-112.48 <u>Small Veins of Po Mineralization</u> with small					95	<0.1	X 5279	23cm	0.04	0.02	0.08	0.002	0.08
			amounts of Cpy and Py; 62° to core axis; the veins vary in													
			size from 3 mm to 5 mm; cross cuts phyllite.													

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 5 of 7			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-5			
Metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu	Pb	Zn	Au	Ag
			113.44-113.56 <u>Vein</u> of massive Po with small amounts of Cpy and Py; 2 cm in width and is at 68° to core axis; cross cuts phyllite.				90	<1	X5280	12cm	0.10	0.02	0.02	0.001	0.14
			113.86-113.96 <u>Vein</u> of massive Po with small blebs of Cpy and minor Py; 65° to core axis; 8 mm in width.				90	<1	X 5281	10cm	0.03	0.02	0.02	0.001	0.14
			119.30-119.40 <u>Small Veinlet</u> of Py and Po mineralization; 1 mm in width; 60° to core axis; cross cuts phyllite.												
			123.26-123.46 <u>Vein</u> of Po with minor Cpy and Py; 8 mm in width; 68° to core axis; blebs of Cpy dispersed throughout the Po veins; some chlorite alteration.				90	<1	X5282	20cm	0.02	0.02	0.02	0.001	0.06
			125.70-125.75 <u>Vein</u> of Po with small blebs of Cpy and Py; 65° to core axis and 1 cm in width; cross cuts phyllite.				90	<0.1	X 5283	5 cm	0.01	0.02	0.02	0.001	0.04
			125.98-126.13 <u>Vein</u> of massive Po with trace amounts of Cpy; 5 mm in width and 74° to core axis; cross cuts phyllite.				90	<1	X 5284	5 cm	0.02	0.02	0.02	0.001	0.06
			126.33-126.40 <u>Vein</u> of Po with trace amounts of Cpy and				90	<1	X 5285	7 cm	0.10	0.04	0.02	0.007	0.26

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NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 6 of 7			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-5			
Metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.				
			and Py; 52° to core axis and 1.2 cm in width; cross cuts												
			phyllite.												
			133.17-133.27 <u>Small Vein of Po</u> with trace Cpy, 1-2 mm in												
			width and 64° to core axis; cross cuts phyllite.												
			133.80-133.88 <u>Small Vein of Py</u> with minor amounts of Po,												
			1 mm in width and 60° to core axis.												
35.49-			INTERMEDIATE TO MAFIC VOLCANIC; a fine grained, light												
37.02	95%		green massive volcanic; tiny crystals of pyroxene and												
			plagioclase dispersed throughout matrix.												
			136.02-136.12 <u>Small Vein of Py</u> and minor Po; 2 intersec-												
			ting veins at 62° to core axis; 1-2 mm in width; appears												
			en echelon in formation.												
			136.34-136.36 <u>Small Vein of Po</u> with minor Cpy; 50° to												
			core axis; 1.5 cm in width.												
			136.63-137.02 <u>A Series of En Echelon Type Veins</u> of Po												

NORANDA EXPLORATION COMPANY, LIMITED

Collared	Completed	Core Size	Property LUSTDUST	Project No 1035	NTS No.
FIELD COORDINATES			SURVEYED COORDINATES		Sheet 7 of 7
Lat.	Elev.	Dip	Lat.	Elev.	Dip
Dep.	Depth	Bearing	Dep.	Depth	Bearing
					Hole No. LD-81-5

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.						
			and trace amounts of Cpy; 1-2 mm in width and 60° to core										
			axis.										
37.02			<u>END OF HOLE</u>										

NORANDA EXPLORATION COMPANY, LIMITED

Collared Sept. 26/81	Completed Oct. 10/81	Core Size BQ	Property LUSTDUST	Project No 1035	NTS No. 93N/11
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. L29 + 00N	Elev. 1450 m	Dip 50°	Lat.	Elev.	Dip
Dep. 23 + 50W	Depth 152.40 m	Bearing 070°	Dep.	Depth	Bearing
					Sheet 1 of 8
					Hole No. LD-81-6

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.					
0-1.22			<u>OVERBURDEN.</u>									
1.22-16.46			<u>PHYLLITE BRECCIA</u> ; very fine grained silicic fragments, light grey to white, in a black very fine grained phyllitic matrix; lenticular fragments varying from 30% to 50% of entire rock, ≤ 3 cm, oriented 25° to core axis, and are sub-angular to sub-rounded; some beds of silicic rock are still intact, but somewhat brecciated; heavy limonite staining occurs parallel to fragment orientation and along fractures at high angles to this orientation between 1.83 and 2.13 m; minor py, po, very minor cpy occurs throughout phyllite breccia, sometimes as pods within the silicic fragments, sometimes along fragment boundaries and parallel to bedding of fragments. The sulphides can occur in small (usually 0.5 cm) veins in this orientation, and are regularly seen but widely spaced. Chlorite and py are very									

DATE October 30, 1981 LOGGED BY Mike Martin

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 8		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6		
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
			commonly mineralized along fractures. Extent of minerali-											
			zation varies locally from non-existent to maybe 1%, but											
			is rarely extensive. Black phyllitic matrix sometimes											
			fairly magnetic, possibly from very fine grained dissemi-											
			nated po, which can be identified on occasion. At 10.36 m											
			fragments have become on the whole more angular, and silicic											
			beds more intact.											
16.46-			<u>HORNFELS</u> ; very dark grey, very fine-grained; previous frac-											
21.64			turing and subsequent alteration is shown by discoloration,											
			light green, along fracture surfaces. There is also evi-											
			dence of some past brecciation, with angular fragments and											
			little apparent movement. From 18.90 to 19.51 m the rock											
			is softer and broken much the same way as shown in the rest											
			of this unit.											
21.64-			<u>PHYLLITE BRECCIA</u> ; same as above; fragments are oriented											
24.91														

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 8		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6		
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
			15° to 20° to the core axis.											
24.91-			<u>PHYLLITE BRECCIA</u> with quartz veins; impure with small,											
25.60			tight folds, some brecciation and minor faulting. Same											
			type of mineralization is present as in regular phyllite											
			breccia. Following veins, there is a 15 cm gradational											
			zone from impure qtz. to silicic fragments.											
25.60-			<u>PHYLLITE BRECCIA</u> .											
26.82														
26.82-			<u>PHYLLITE BRECCIA</u> with quartz veins, as above.											
27.73														
27.73-	80%		<u>PHYLLITE BRECCIA</u> ; fragments are 20° to core axis and are											
45.70			long and lenticular, 1 cm across. Usual mineralization											
			occurs. At 32.16 m a 1 cm calcite vein in the midst of a											
			0.61 m zone of intense chloritization of the phyllite											
			breccia. Poor core recovery, highly broken. At 38.71 m											
			the fragments became more rounded and occur in shorter											
			lenses, i.e. brecciation was more intense.											

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 8		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6		
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
			40.54 m Qtz. vein, minor disseminated py, very minor cpy,											
			at least 4 cm across. No contacts were recovered on either											
			end.											
			44.65 m Fragments becom smaller, often folded, finally be-											
			coming non-existent at approximately 45.7 m.											
45.7-49.4	70%		<u>PHYLLITE CONTACT ZONE</u> ; increasingly silicic with depth.											
			Basically same as matrix of phyllite breccia, but without											
			silicic clasts. Grades into hornfels below.											
49.4-50.0	70%		<u>HORNFELS</u> ; dark grey to black, very hard, with lighter,											
			greenish coloured silicic zones along old fractures, pos-											
			sibly showing previous alteration.											
50.0-56.4	90%		<u>PHYLLITE BRECCIA</u> ; first 0.5 m has high chlorite alteration											
			parallel to clast orientation and larger fragments (2 cm											
			across). Following this transition zone, we are back to											
			standard phyllite breccia with smaller clasts, 20-30 ^o to											

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 5 of 8			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6			
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
			C.A. At 55.47 m there is a 3 mm calcite vein at a high angle to foliation. Chlorite alteration extends laterally from this vein for 4 cm on either side along clast boundaries and foliation.												
56.4-61.10	90%		<u>HORNFELS</u> ; dark grey, very fine grained with greenish silicic banding and heavy chlorite alteration along with some ser-pentinization along fractures.												
61.10-62.93			<u>PHYLLITE BRECCIA</u> ; 10 cm gradational zone from hornfels to breccia. Core is badly broken, poor recovery. Some minor, ≤ 5 mm, zones of up to 20% py.												
62.93-79.10	98%		<u>INTERMEDIATE VOLCANICS</u> ; very fine grained to fine grained. Fine grained, well defined Hb crystals, almost large enough to be phenocrysts ≤ 1.0 mm. Volcanics are medium grey, with a mottled colour, due to poorly formed feldspar crystals. Sulfides, very fine grained, are present, both						7480	0.31m	----	----	----	0.001	0.02

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 6 of 8	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6	
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.		
			disseminated and along fractures. Only py was identified.										
			Lower contact is sharp but irregular. Sample 7480--very										
			fine arsenopyrite vein in volcanics; taken from 73.15 to										
			73.46 m.										
79.10-91.30	98%		<u>PHYLLITE BRECCIA</u> ; foliation and clast orientation is 30°										
			to C.A. 8 cm contact zone (with volcanics above) is horn-										
			fels with silicic banding; Fragments are at first large										
			and lenticular, becoming smaller, rounded and less frequent										
			(50% of rock vs. previous 75%) at 82.91 m for 2 m, then										
			back to lenticular with chlorite alteration zones parallel										
			the foliation.										
			82.30 m 1.5 cm calcite vein, with wall rock inclusions,										
			containing pods of py.										
91.30-91.61			<u>BRECCIA</u> ; same as phyllitic breccia, except fragments and										
			matrix have no preferred orientation. Highly brecciated,										

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 7 of 8				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.				
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-6				
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	Cu	Pb	Zn	Au	Ag
			rounded clasts.													
91.61-136.85	98%		<p><u>PHYLLITE BRECCIA</u>; both lenticular and rounded clasts; 20-30° to C.A. At 102.40 m we have a 10 cm zone of clay alteration in the breccia. Calcite veins are present in what is left of the rock. A zone, 30 cm across, of calcite veins, 50% disseminated py, are present at 109.9 m. Silicified alteration zones of 15 cm and 30 cm are present at 123.75 and 125.77 m respectively. A 3 cm qtz. vein is found, parallel foliation, at 132.17 m. Minor, massive po occurs in pods. This is followed at 132.59 m by a 6 cm calcite vein at a low angle to foliation, with many phyllite clasts included. 10% disseminated py. Foliation has been 30-45° to C.A. since 127 m. For 30 cm foliation is parallel to C.A. at 135.94 m, then back to previous.</p>													
136.85-137.46			<u>CONTACT ZONE</u> ; 60% crystalline and massive py in a very fine							Y 7481	0.76m	0.01	----	----	0.036	0.52

NORANDA EXPLORATION COMPANY, LIMITED

Collared Oct. 13/81		Completed Oct. 15/81		Core Size BQ		Property LUSTDUST			Project No 1035		NTS No. 93N/11					
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 3				
Lat. L14 + 00N		Elev. 1440 m		Dip 50°		Lat.		Elev.		Dip		Hole No.				
Dep. 16 + 25W		Depth 153.62 m		Bearing 070°		Dep.		Depth		Bearing		LD-81-7				
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	Cu %	Pb %	Zn %	Au oz/t	Ag oz/t
0-1.52			OVERBURDEN; casing.													
1.52-37.49			LIMESTONE; blue grey, recrystallized, massive. Often contains brecciated remnants of previous limestone, rich in limonite, both in rock and on fractures. This has an earthy texture, and is very fine grained and comprises 15-20% of core. Calcite veins occur throughout core, ≤ 1 cm, generally ≤ 2 mm, at various angles to C.A. Sample 8751: limonite stained, tectonically collapsed limestone breccia in recrystallized limestone; taken from 3.66 m to 3.78 m.							Y 8751	0.12m	0.01	0.02	0.06	0.001	0.08
37.49-46.33			LIMESTONE BRECCIA; dark grey, to grey, to grey-green; highly folded, very fine grained, with limonite on fractures and in beds 60° to C.A., along with some of breccia. Breccia occurs in beds or is unoriented, probably due to folding. Clasts ≤ 2 cm, 90% ≤ 3 mm. Calcite veins, ≤ 1 cm, are present and are highly folded.													

DATE October 30, 1981

LOGGED BY Mike Martin

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 3				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.				
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-7				
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Cu	Pb	Zn	Au	Ag	S
46.33-83.21			<p><u>LIMESTONE</u>; same recrystallized rock as above, along with brecciated original variety. This has much less limonite, and is therefore now grey-brown rather than red-brown. Clast boundaries become less pronounced with depth, and recrystallized limestone becomes darker blue-grey.</p>													
83.21-89.65			<p><u>PHYLLITIC SKARN</u>; folded, dark green-grey, very fine grained, foliation 45-90° to C.A. 5% recrystallized limestone fragments parallel to foliation. Possibly reddish garnets, v.f.g., in places.</p>													
89.65-149.75			<p><u>LIMESTONE</u>; as above; recrystallized variety with brecciated variety.</p>													
149.76-153.62			<p><u>SERICITIZED VOLCANICS</u>; light grey, very fine grained. Sometimes unconsolidated clay, volcanics contain remnants of hornblende crystals and quartz eyes. Also minor disseminated py.</p>						Y8752	0.12m	0.01	----	1.60	0.013	0.10	--
									Y8753	0.13m	0.01	----	0.68	0.014	0.20	.4
									Y8754	0.15m	----	----	----	0.001	0.02	.0

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035			NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 3			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-7			
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.				
			Sample 8752: white, fairly pure qtz. vein (5 cm across)												
			with disseminated py and pods of sphalerite along bounda-												
			ries; taken from 150.57 to 150.69 m.												
			Sample 8753: 4 mm vein of massive stibnite, sphalerite,												
			and py; taken from 152.10 m to 152.23 m.												
			Sample 8754: soft, massive, grey-black metallic mineral												
			with py, stibnite?; taken from 152.40-152.55 m.												
153.62			<u>END OF HOLE.</u>												

NORANDA EXPLORATION COMPANY, LIMITED

Collared Oct. 18/81	Completed Oct. 23/81	Core Size BQ	Property LUSTDUST	Project No 1035	NTS No. 93N/11
FIELD COORDINATES			SURVEYED COORDINATES		
Lat. L34 + 00N	Elev. 1295 m	Dip 50°	Lat.	Elev.	Dip
Dép. L14 + 50W	Depth 144.17 m	Bearing 250°	Dep.	Depth	Bearing
					Hole No. LD-81-8

metres	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.				
0-10.67			<u>OVERBURDEN</u> and casing.								
10.67-44.98			<u>PHYLLITE BRECCIA</u> ; silicic and graphitic clasts, light grey in a black, v.f.g. matrix which is somewhat to highly graphitic. Clasts are lenticular and usually ≤ 1 cm, although they can be larger. Foliation and clast orientation is usually 70-90° to C.A., often highly folded and in various orientations. Clasts are mostly angular, but zones of more rounded ones can occur. Small ≤ 5 cm zones of black graphitic material with silicic angular sand grains and v.f.g. py crystals, ≤ 0.5 mm. Minor disseminated pyrite occurs throughout core, occasionally found in pods, ≤ 0.5 cm within breccia clasts. Very minor po is related to py, which in turn seems more associated with graphitic material when disseminated. Occasional calcite veins occur, ≤ 1 cm, usually ≤ 3 mm, cutting at various angles across foliation.								

DATE October 30, 1981

LOGGED BY Mike Martin

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 4		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-8		
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.			
44.98- 45.08			SILICIC HORNFELS; v.f.g., dark grey with highly folded, very narrow, black bands.											
45.08- 45.57			PHYLLITE SKARN; grey-green, v.f.g., with calcite lenses 3 mm x 4 cm, which are grey blue and massive.											
45.57- 46.56			HYBRID PHYLLITE BRECCIA; varies from phyllite breccia, as above, on top to silicic hornfels, with relict breccia texture, and with minor interfragmental grey-green phyllite.											
46.56- 46.94			PHYLLITIC SKARN; as above.											
46.94- 50.60			PHYLLITE BRECCIA; graphitic. Clasts are lenticular and mostly angular, usually ≤ 5 mm across.											
50.60- 51.08			HORNFELS; as above, with relict breccia texture.											
51.08- 51.38			PHYLLITE BRECCIA; as above.											
51.38- 52.25			DOLOMITE BRECCIA; clasts are dolomite; v.f.g., light yellow grey, and sub-rounded in v.f.g. black matrix. Clasts make up 85% of rock, and are ≤ 5 mm. Some of clast material											

DATE _____ LOGGED BY _____

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property LUSTDUST			Project No 1035		NTS No.				
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 4			
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.			
Dep.		Depth		Bearing		Dep.		Depth		Bearing		LD-81-8			
metres	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.				
			appears to be ground finely into the matrix.												
52.25-68.66			<p><u>PHYLLITE BRECCIA</u>; highly graphitic. Small lenticular clasts are often highly folded and at various orientation. Sometimes unconsolidated for 0.15 m with remnants of white, barren qtz. veins \leq 1 cm. At 62.18 m phyllite breccia becomes less graphitic and more silicic. We get zones of high silica content and high dolomite content where breccia characteristics are not as strong, i.e. either non-existent or just faded boundaries.</p>												
68.66-69.93			<p><u>DOLOMITE BRECCIA</u>; breccia characteristics disappear with depth.</p>												
69.93-82.14			<p><u>PHYLLITE BRECCIA</u>; as above, with beds, 15 cm, of recrystallized limestone and dolomite breccia, \leq 10% of entire rocks.</p>												
82.14-86.26			<p><u>PHYLLITE BRECCIA, LIMESTONE</u> (recrystallized), and <u>DOLOMITE</u> interbedded. Dolomite is same as clast material in dolomite</p>												

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed	Core Size	Property LUSTDUST			Project No 1035		NTS No.			
FIELD COORDINATES				SURVEYED COORDINATES					Sheet 4 of 4			
Lat.		Elev.	Dip	Lat.		Elev.	Dip		Hole No.			
Dep.		Depth	Bearing	Dep.		Depth	Bearing		LD-81-8			
metres	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.		
			breccia. Minor calcite veining throughout, \leq 5 mm.									
86.26-139.60			<u>PHYLLITE BRECCIA</u> ; as previous, with \leq 5% 15 cm beds of silicic hornfels, recrystallized limestone, and dolomite.									
			Highly graphitic. Up to 125.88 m clasts make from 40% to 80% of rock mass. After 125.88 m, this is reduced to 20 to 40% with respect to graphitic matrix. Much of rock is now unconsolidated graphite.									
139.60-144.17			<u>LIMESTONE</u> recrystallized, blue-grey and massive. Minor variously oriented calcite veins throughout.									
144.17			<u>END OF HOLE.</u>									

APPENDIX I
STATEMENT OF COST

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT Lust Dust DATE December 1981
TYPE OF REPORT Geology, Geochem, Geophysics & Drilling

a) Wages:

No. of Days 188
Rate per Day \$ 151.714
Dates From: Jan/81 - Oct/81
Total Wages 188 x \$ 151.714 28,522.24

b) Food and Accomodation:

No of days 188
Rate per day \$ 52.655
Dates From: Jan/81 - Oct/81
Total Cost 188 x \$ 52.655 9,899.15

c) Transportation:

No of days 188
Rate per day \$ 183.1229
Dates From: Jan/81 - Oct/81
Total Cost 188 X \$ 183.1229 34,437.10

d) Instrument Rental:

Type of Instrument
No of days
Rate per day \$
Dates From:
Total Cost X \$

Type of Instrument
No of days
Rate per day \$
Dates From:
Total Cost X \$

f) Analysis (See attached schedule)		5,637.60
g) Cost of preparation of Report		
Author		910.28
Drafting		1,503.27
Typing		910.28
h) Other:		
Camp & Field Supplies		4,430.83
Contractors		<u>67,339.24</u>

Total Cost \$153,589.99

e) Unit costs for	Geology	
No of days	188	
No of units		
Unit costs	108.8007 / day	
Total Cost	188 × 108.8007	20,454.54
Unit costs for	Geochem	
No. of Units	696 Samples	
Unit Costs	24.533/Sample	
Total Cost	696 X 24.533	16,325.14
Unit Costs for	Geophysics	
No. of Units	34.15 Line Km	
Unit Costs	171.9303/Line Km	
Total Cost	34.15 X 171.9303	5,871.42
Unit Costs for	Drilling	
No. of Units	854 meters	
Unit Costs	129.9050/meter	
Total Cost	854 X 129.9050	<u>110,938.89</u>
		<u>\$153,589.99</u>

NORANDA EXPLORATION COMPANY, LIMITED
(WESTERN DIVISION)

DETAILS OF ANALYSIS COSTS

PROJECT: LUST DUST

<u>ELEMENT</u>	<u>NUMBER OF DETERMINATIONS</u>	<u>COST PER DETERMINATIONS</u>	<u>TOTAL</u>
Cu	696	1.50	1,044.00
Pb	696	.60	417.60
Zn	696	.60	417.60
Mo	696	.60	417.60
Mn	696	.60	417.60
Fe	696	.60	417.60
Ag	696	.60	417.60
Au/As	696	3.00	2,088.00

\$ 5,637.60

APPENDIX II
STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Michael W. Leahey, of the town of Smithers, Province of British Columbia, do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since May 1973.
2. I am a graduate of St. Francis Xavier University in Antigonish, N.S. with a Bachelor of Science Major in Geology (1973).

Dated at Smithers

this 7th day of November, 1980

Michael W. Leahey

Michael W. Leahey

District Geologist

Noranda Exploration Company, Limited

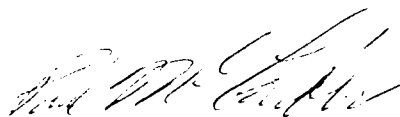
(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I, Paul McCarter, of the city of Corvallis, State of Oregon,
do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since April, 1981;
2. I am a Canadian citizen;
3. I am a graduate of the University of Western Ontario in London, Ontario with an Honours Bachelor of Science Degree in Geology (1974); and
4. I am a graduate of Oregon State University in Corvallis, Oregon with a Master of Science Degree in Geology (1980).

Dated at Smithers
this 12th day of June, 1981



Paul McCarter
Field Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I, Michael F. Martin, of the town of Mont St. Hilaire, of the province of Quebec, do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since April 5, 1981.
2. I am a graduate of St. Francis Xavier University, Antigonish, Nova Scotia, with a Bachelor of Science, concentration in Geology, 1980.

Dated at Smithers

this 3rd day of November, 1981



Michael F. Martin

Field Geologist

Noranda Exploration Company, Limited

(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I, George Owsicki of the City of Kirkland Lake, Province of Ontario, do certify that:

1. I have been employed as a geologist by Noranda Exploration Company, Limited since June, 1981.
2. I am a graduate of Queen's University with a Bachelor of Science in Geology. (1981).



George Owsicki, B. Sc.
Geologist,
Noranda Exploration Company, Limited
(No Personal Liability)


STATEMENT OF QUALIFICATIONS

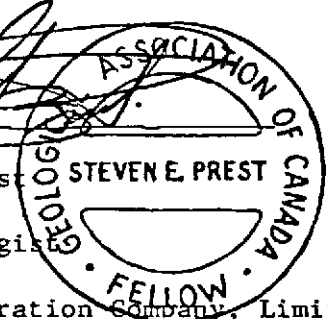
I, Steven E. Prest, of the town of Smithers, Province of British Columbia, do hereby certify that the following are true statements:

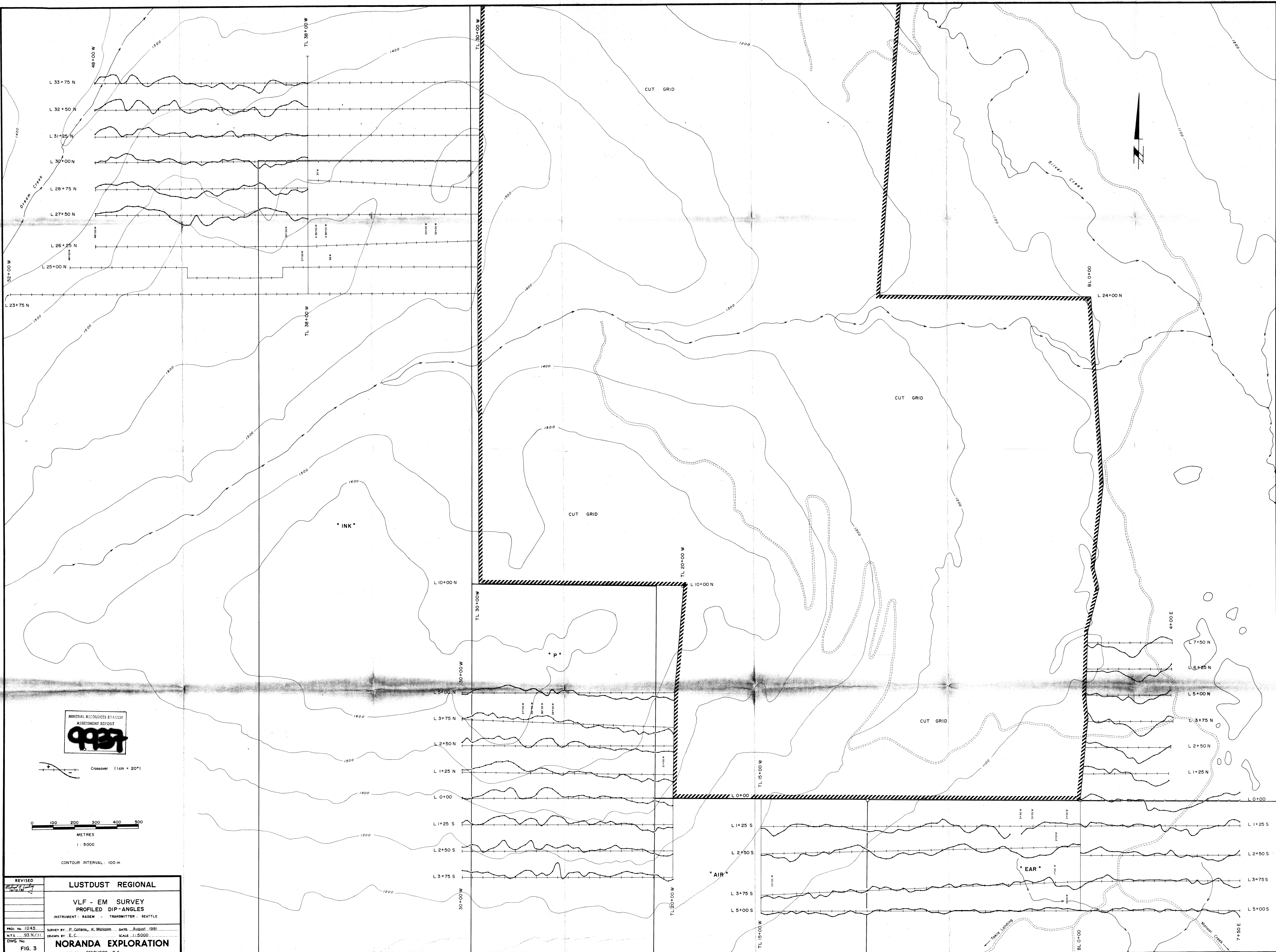
- I I have been an employee of Noranda Exploration Company, Limited since April 1976, and intermittently since April 1974.
- II I am a member of the Canadian Institute of Mining and Metallurgy, the Prospectors and Developers Association, and the Canadian Remote Sensing Society, and a Fellow of the Geological Association of Canada.
- III I am a graduate of Acadia University, Wolfville, Nova Scotia with a Bachelor of Science Degree in Geology (1976).

Dated at Smithers

this twentieth day of November, 1981


STEVEN E. PREST
Project Geologist
Noranda Exploration Company, Limited
(No Personal Liability)





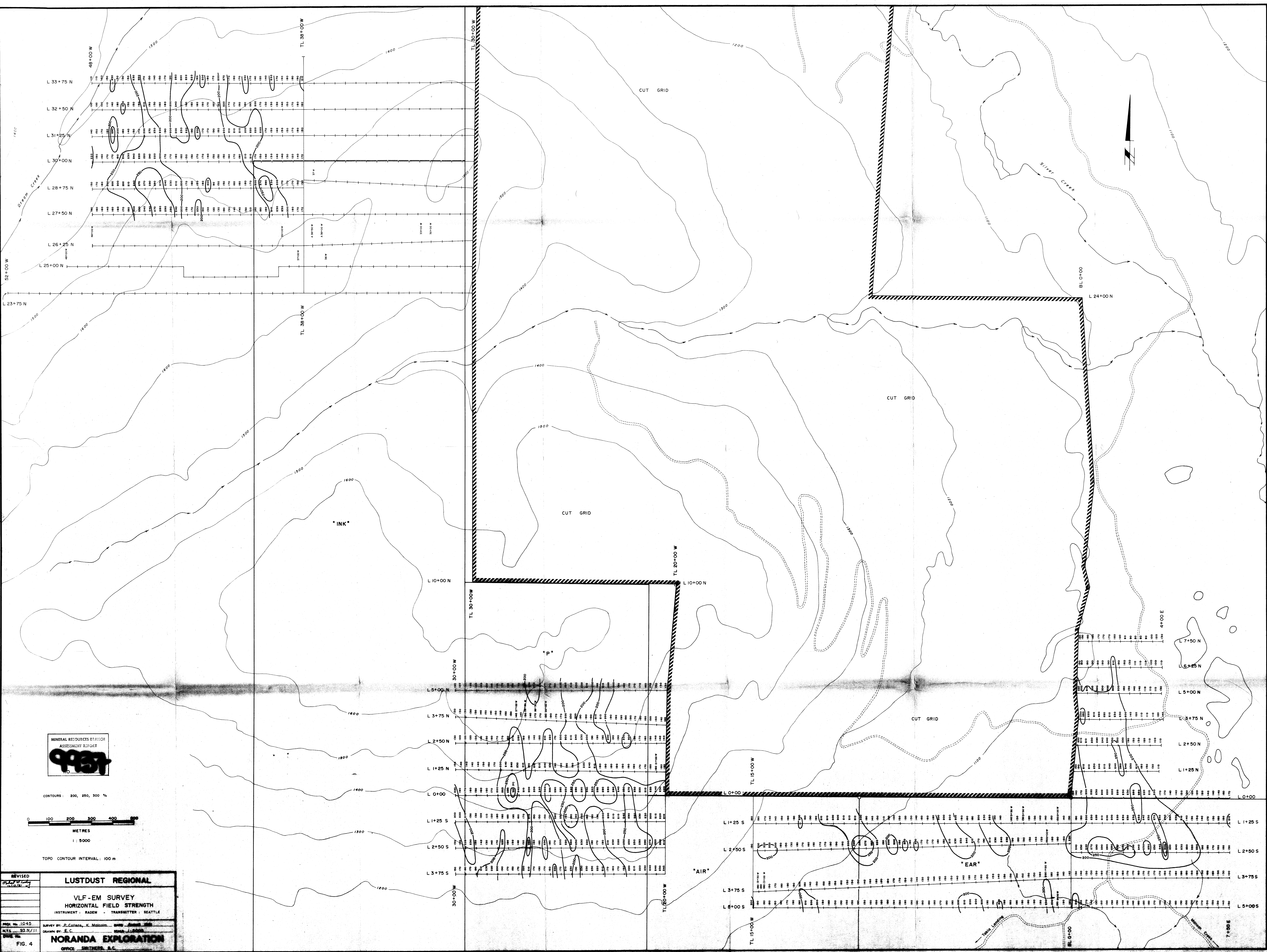
MINERAL RESOURCES BRITISH COLUMBIA
ASSESSMENT REPORT
9937

Crossover (1cm = 20°)

0 100 200 300 400 500
METRES
1 : 5000

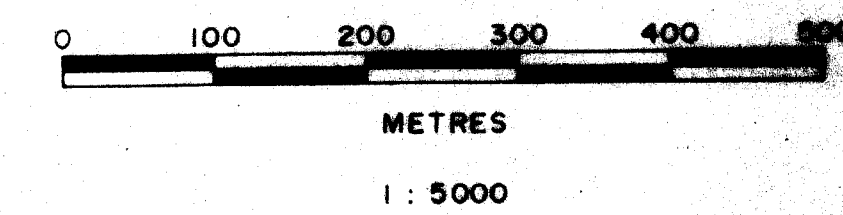
CONTOUR INTERVAL : 100 m

REVISED	LUSTDUST REGIONAL	
	VLF - EM SURVEY	
	PROFILED DIP-ANGLES	
	INSTRUMENT : RADEM	TRANSMITTER : SEATTLE
PROJ. No. 1045	SURVEY BY : P. Collins, K. Malcolm	DATE : August 1981
N.T.S. 93 N/11	SCALE : 1:5000	
DWG. No.	NORANDA EXPLORATION	
FIG. 3	OFFICE : SMITHERS, B.C.	



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
987

CONTOURS: 200, 250, 300 %

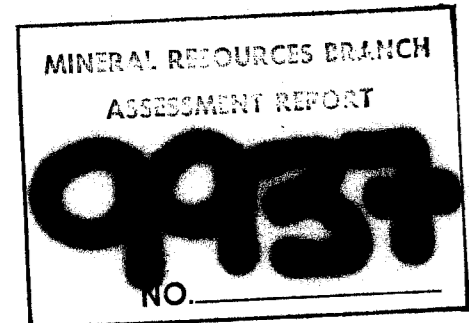
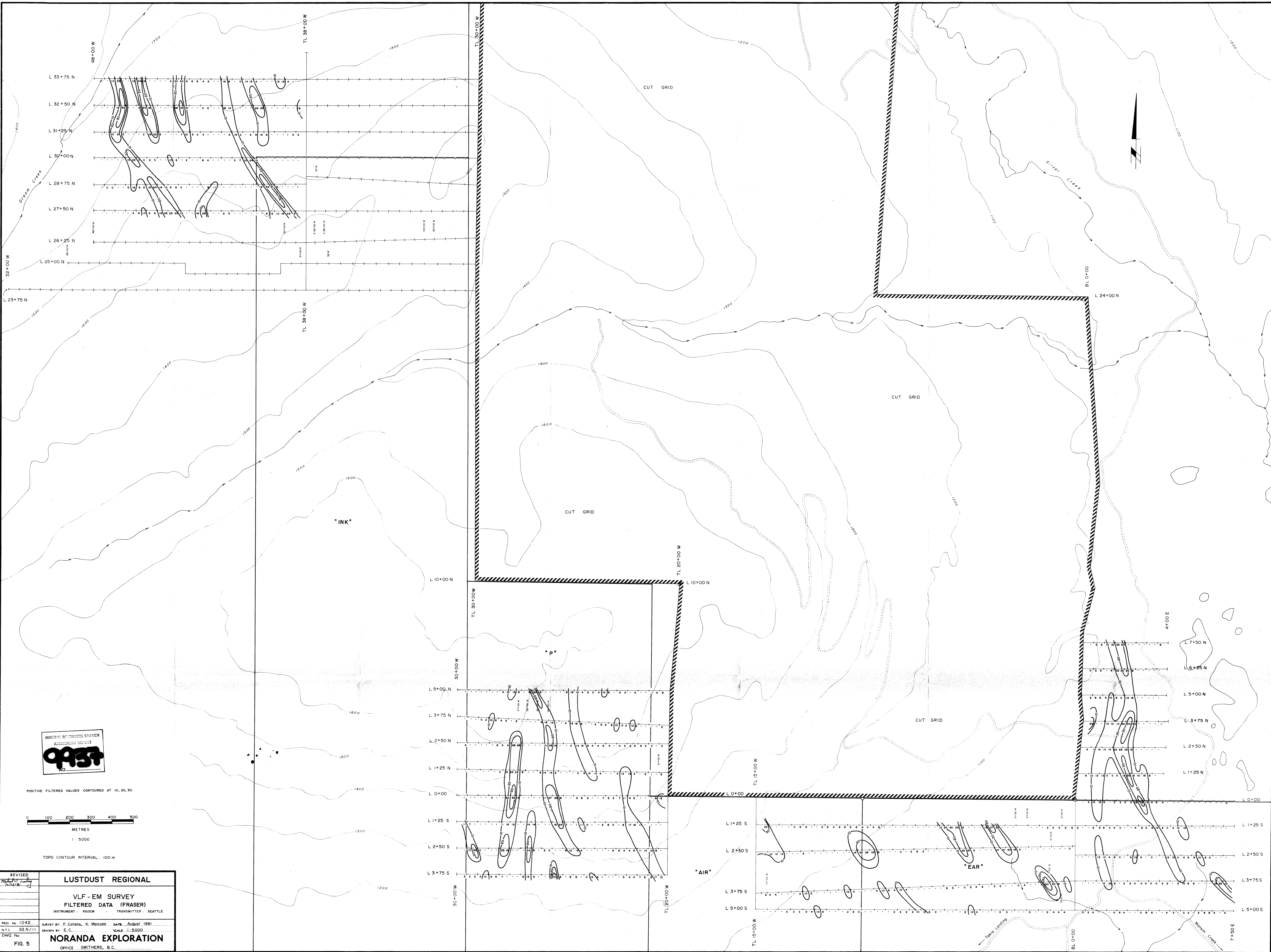


METRES

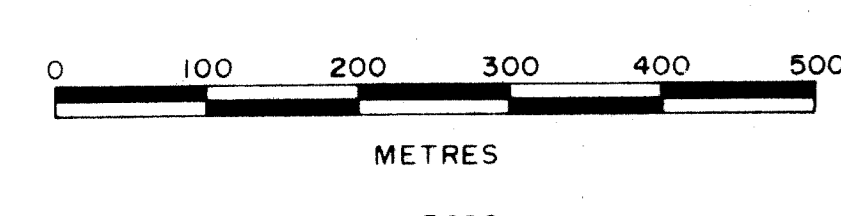
1: 5000

TOPO CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL
NO. 1045	VLF-EM SURVEY
DATE: 23.N/11	HORIZONTAL FIELD STRENGTH
DRAWN BY: E.C.	INSTRUMENT: RADEM - TRANSMITTER: SEATTLE
FIG. 4	NORANDA EXPLORATION
	OFFICE: SMITHERS, A.C.

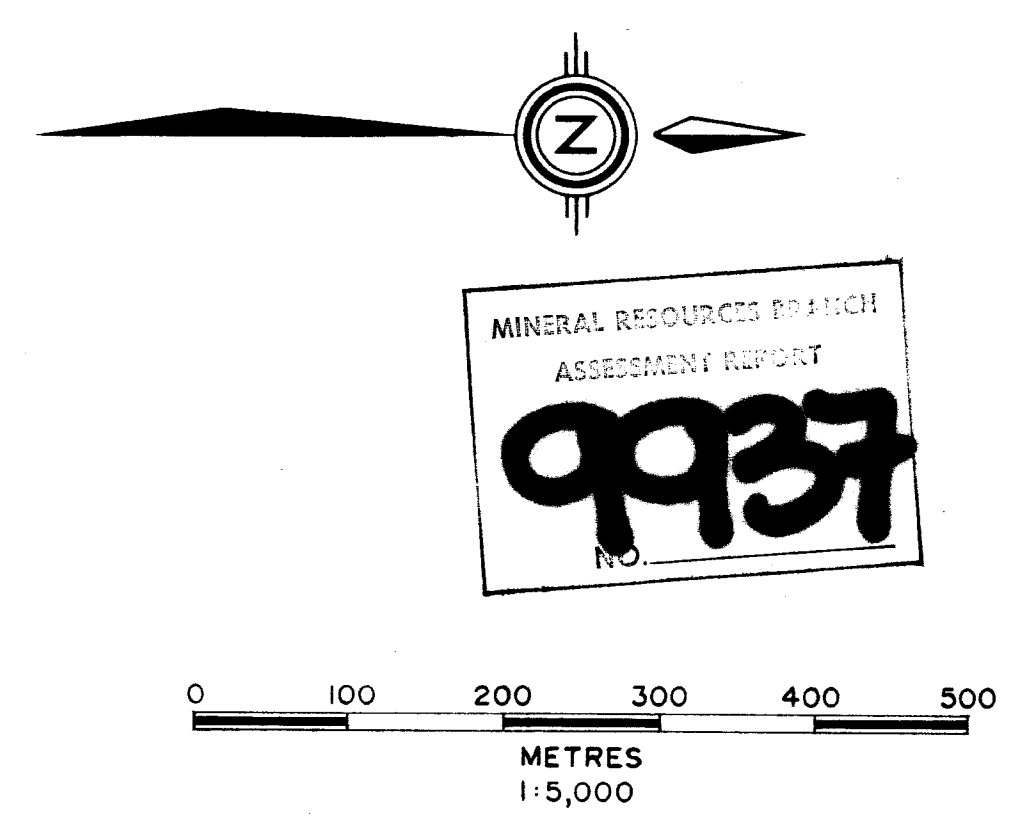
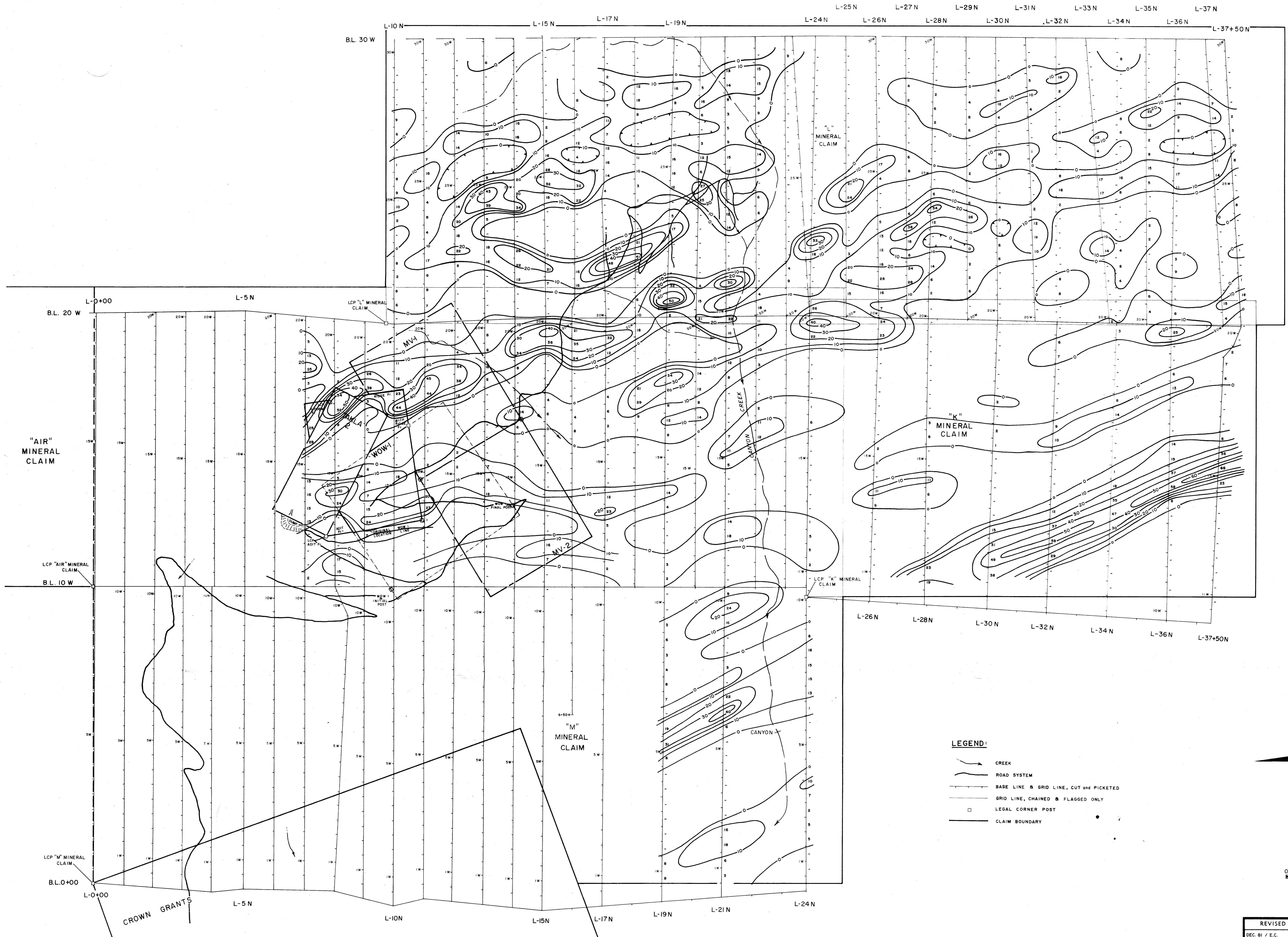


POSITIVE FILTERED VALUES CONTOURED AT 10, 20, 30

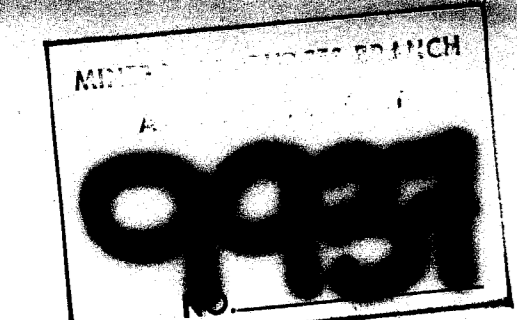
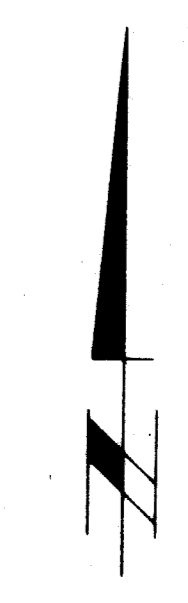
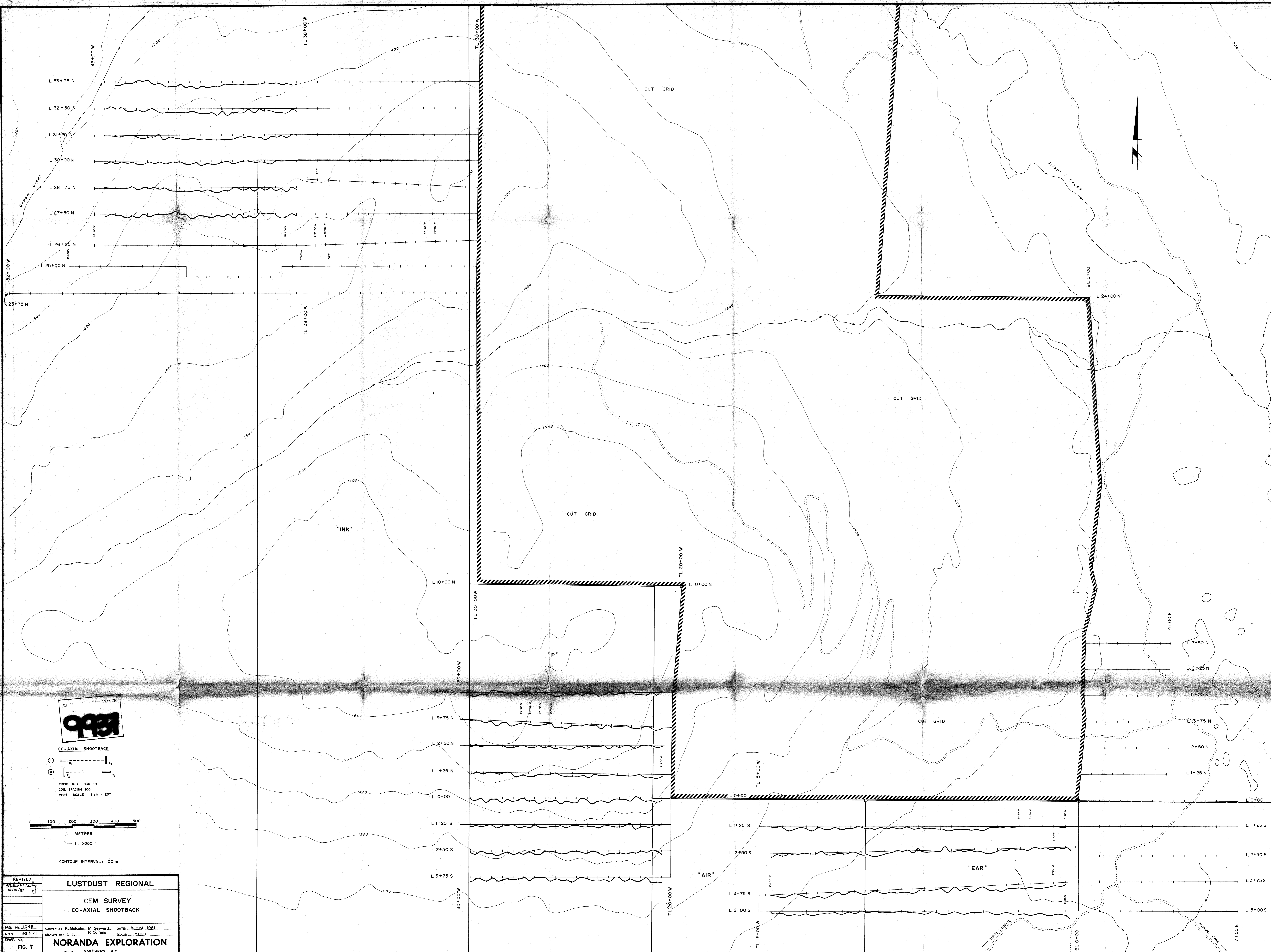


TOPO CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
	VLF - EM SURVEY	
	FILTERED DATA (FRASER)	
	INSTRUMENT: RADEM TRANSMITTER: SEATTLE	
PROJ. No. 1045	SURVEY BY: P. Collins, K. Malcolm	DATE: August 1981
DWG. No. 93 R/11	DRAWN BY: E. C.	SCALE: 1:5000
FIG. 5	NORANDA EXPLORATION	
	OFFICE: SMITHERS, B.C.	



REVISED DEC. 81 / E.C. SMITHERS, B.C. <i>Michael W. Leiby</i> <i>Isabelle</i>	LUSTDUST PROPERTY
PROJ. No. 1035 N.T.S. 33 N/11 DWG. No.	VLF - EM SURVEY FILTERED DATA (FRASER) CONTOUR INTERVAL +10' TRANSMITTER - SEATTLE INSTRUMENT: SABRE
SURVEY BY: S.E.P. DRAWN BY: S.N.	DATE: DEC. 1980 SCALE: 1:5,000
FIG. 6	NORANDA EXPLORATION OFFICE: VANCOUVER, B.C.

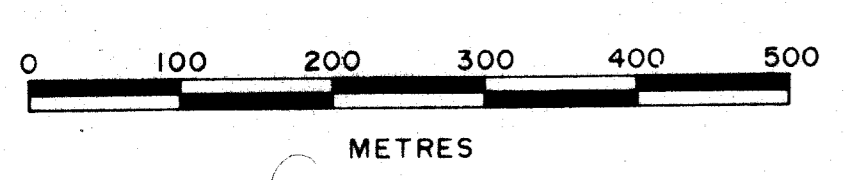


CO-AXIAL SHOOTBACK

① T_1 T_2

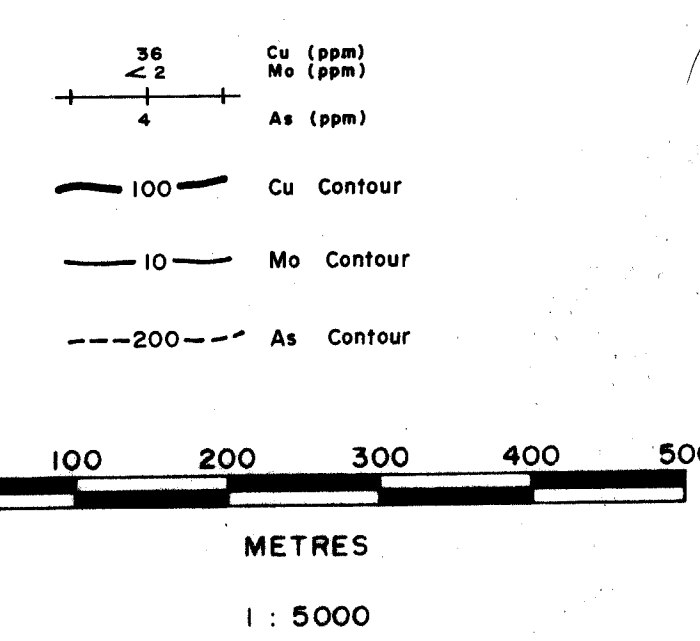
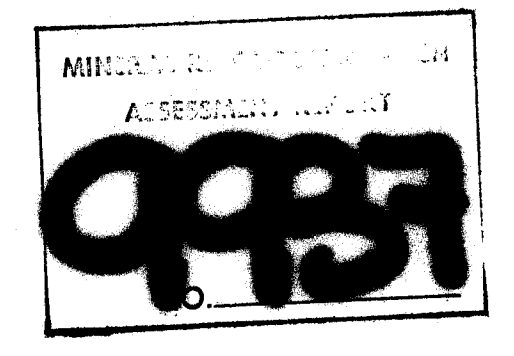
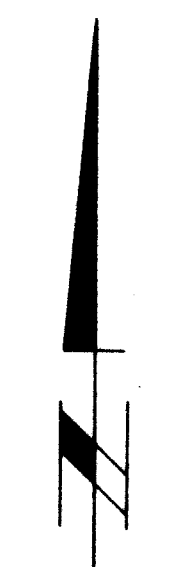
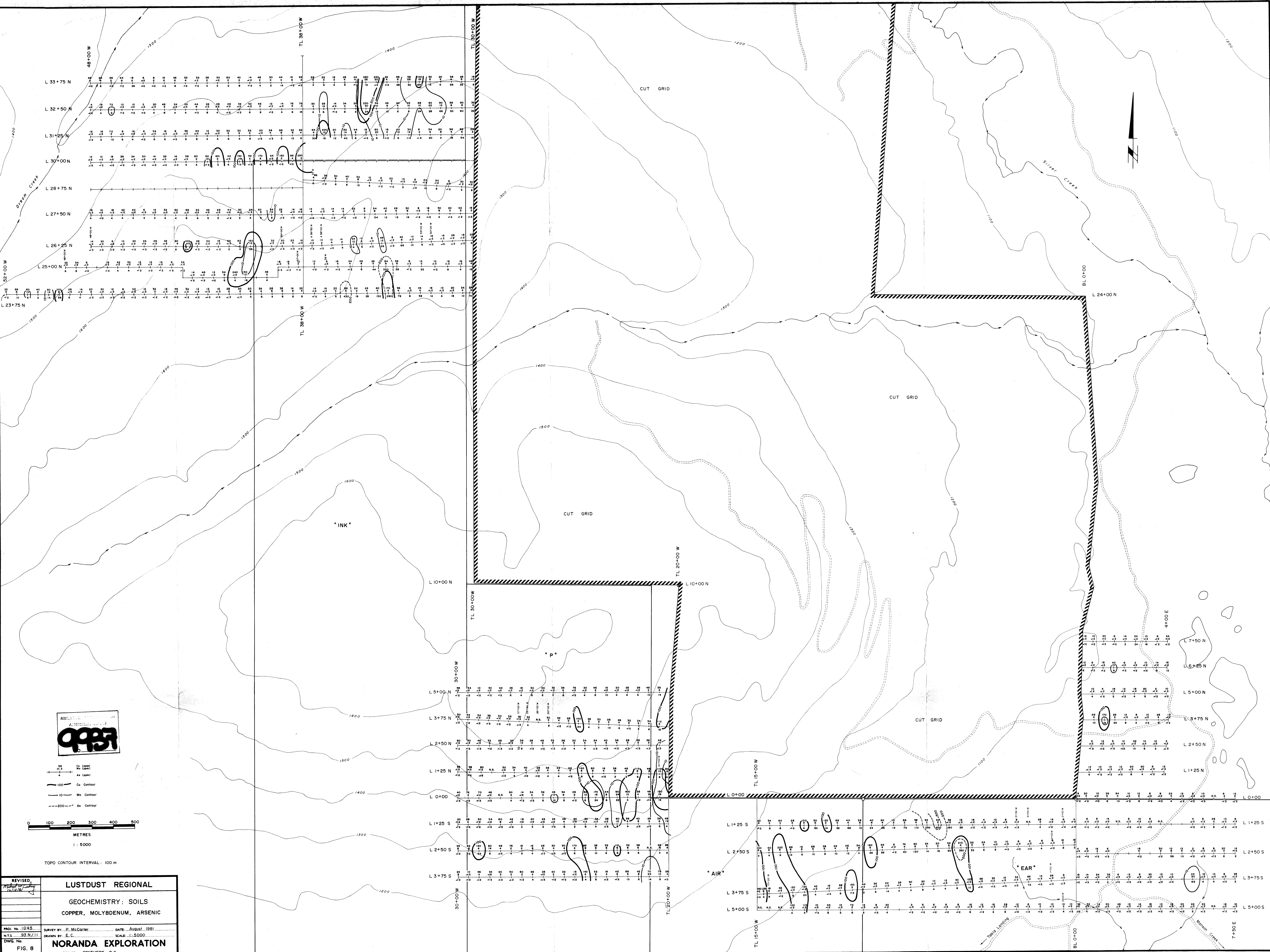
② T_1 T_2

FREQUENCY 1830 Hz
 COIL SPACING 100 m
 VERT. SCALE: 1 cm = 20'



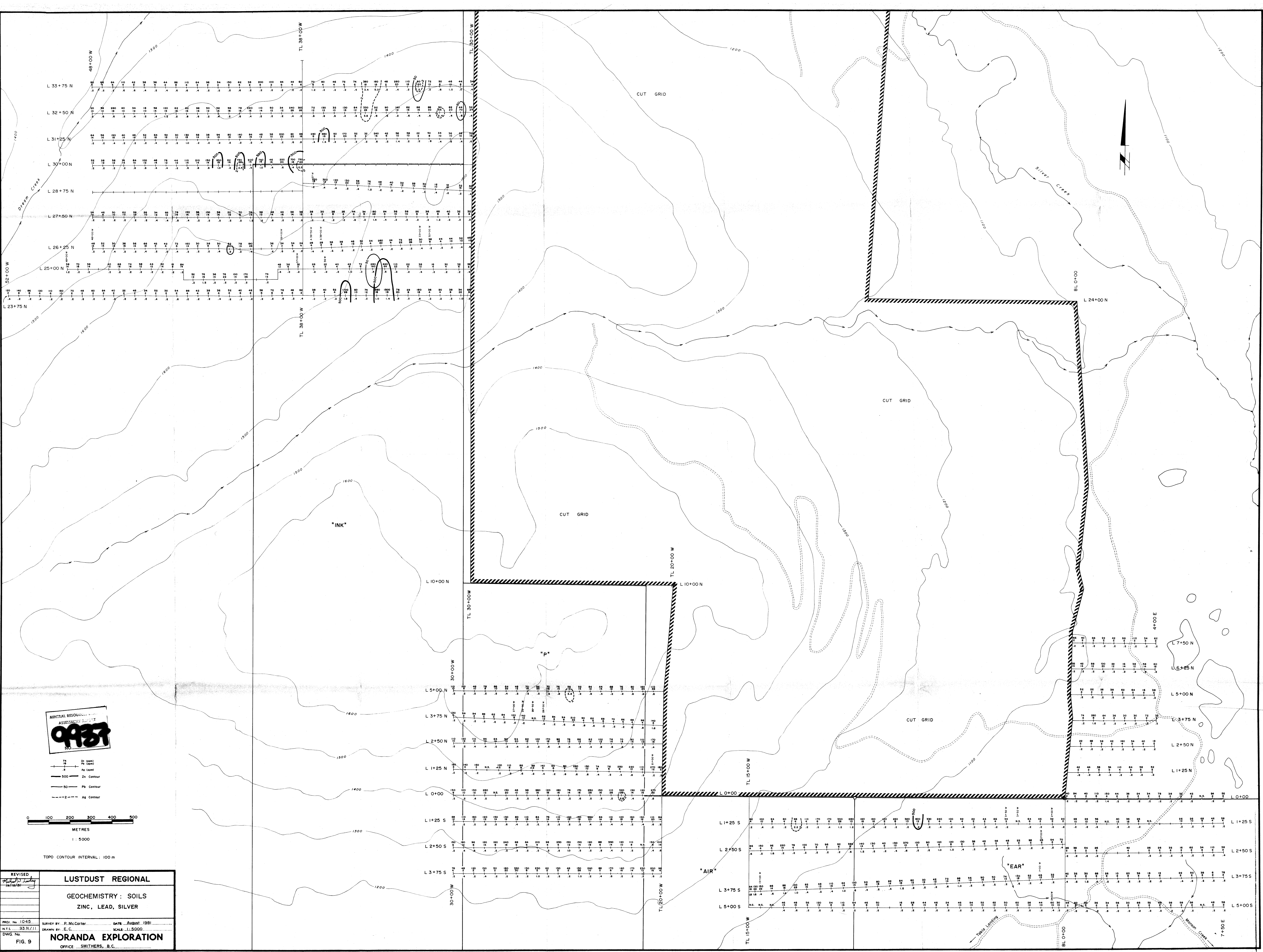
CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
	CEM SURVEY	
	CO-AXIAL SHOOTBACK	
PROJECT No. 1045	SURVEY BY: K. Malcolm, M. Seyward,	DATE: AUGUST 1981
M.T.S. 93 N/11	P. Collins	SCALE: 1:5000
DWG. No.	NORANDA EXPLORATION	
FIG. 7	OFFICE: SMITHERS, B.C.	



TOPO CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
	GEOCHEMISTRY: SOILS	
	COPPER, MOLYBDENUM, ARSENIC	
PROJ. No. 1045	SURVEY BY: P. McCarter	DATE: August, 1991
NTS: 33.N/11	DRAWN BY: E.C.	SCALE: 1:5000
DWG. No.	NORANDA EXPLORATION	
FIG. 8	OFFICE: SMITHERS, B.C.	



MINERAL RESOURCES
ASSESSMENT PROJECT
9987
NO.

74 2m (Spot)
74 2m (Spot)
74 2m (Spot)
500 2m Contour
50 5m Contour
--- 2m Ag Contour

0 100 200 300 400 500
METRES
1 : 5000

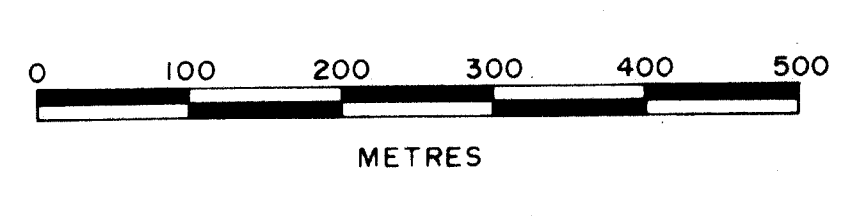
TOPO CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
	GEOCHEMISTRY: SOILS	
	ZINC, LEAD, SILVER	
PROJ. No. 1045	SURVEY BY: P. McCarter	DATE: AUGUST 1981
DWG No. 93.N/11	DRAWN BY: E.C.	SCALE: 1:5000
FIG. 9	NORANDA EXPLORATION	
	OFFICE: SMITHERS, B.C.	



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9937

840 Mx (ppm)
1.4 Fx (%)
1000 Mx Contour
--- 3 --- Fx Contour



1 : 5000
TOPO CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
<i>10/17/81</i>	GEOCHEMISTRY: SOILS	
	MANGANESE, IRON	
PROJ. No. 1045	SURVEY BY: P. McCarter	DATE: August 1981
NTS: 93 N/11	DRAWN BY: E.C.	SCALE: 1:5000
DWG. No.	NORANDA EXPLORATION	
FIG. 10	OFFICE: SMITHERS, B.C.	



LEGEND

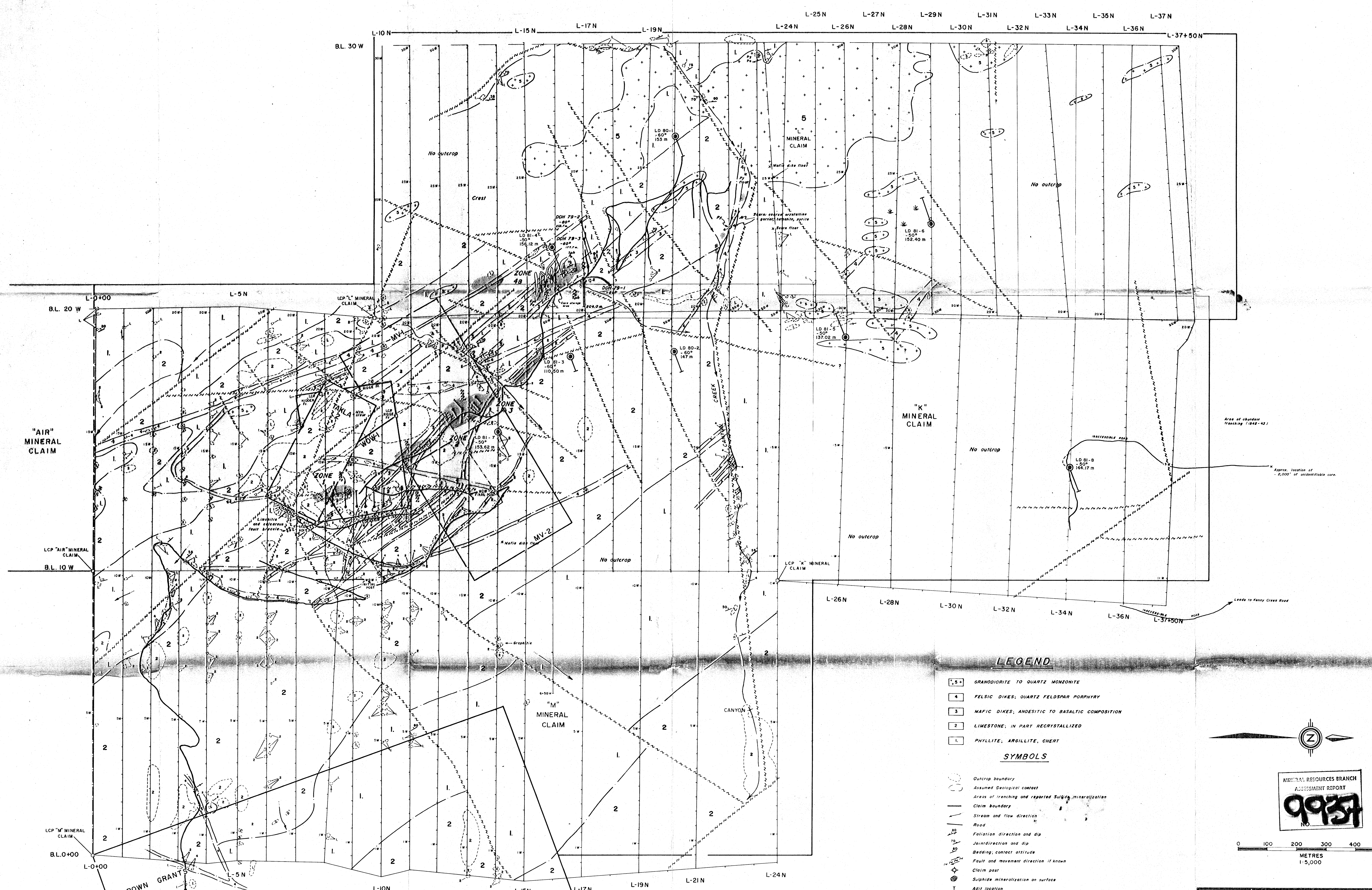
- ROCK UNITS**
- 4 Intrusive Rocks
 - a. Felsite
 - b. Inequigranular quartz monzonite
 - c. Feldspar-biotite hornblende porphyry
 - 3 Limestone, partly recrystallized
 - 2 Andesite, minor basalt and dacite
- flows, possibly some pillow lava
 - 1 Schist and phyllite
 - a. Grey to dark grey micaceous schist and phyllite, some graphic sections.
 - b. Grey to light grey schist and phyllite > 10% felsic bands.
 - c. Light grey siliceous schist and phyllite, minor chert.

- SYMBOLS**
- Outcrop
 - Suboutcrop or talus
 - x Small outcrop or float
 - Schistosity (inclined, vertical)
 - Foliation (inclined, vertical)
 - Fold axis with plunge
 - Geological contact
 - Rock sample location
 - Flagged line
 - Road
 - Stream
 - Fault
 - Graphite
 - Pyrite
 - Pond or Lake
 - Legal Corner Post and Claim Lines
 - Abandoned Bratnae Talc Mercury shaft

MINERAL RESOURCES BRANCH
 REGISTRATION REPORT
9987
 NO. 1045

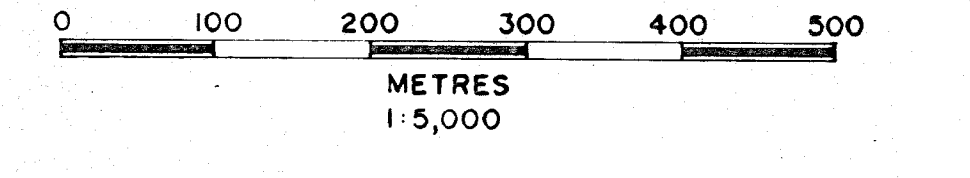
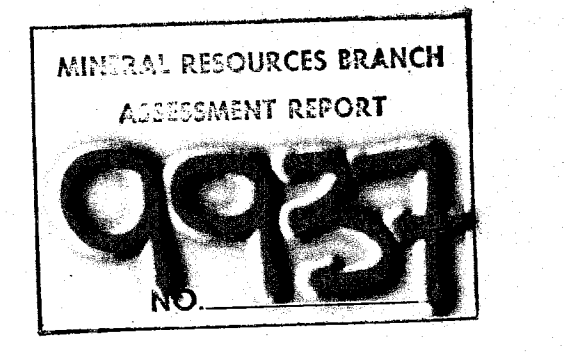
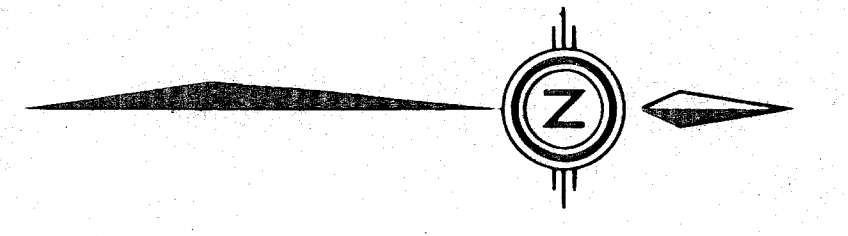
0 100 200 300 400 500
 METRES
 1:5000
 CONTOUR INTERVAL: 100 m

REVISED	LUSTDUST REGIONAL	
<i>M. J. P. [Signature]</i>		
	GEOLOGY	
PROJ. No. 1045	SURVEY BY: P. McCarter	DATE: August 1981
N.T.S. 92 N/11	DRAWN BY: E. C.	SCALE: 1:5000
DWG. No.	NORANDA EXPLORATION	
FIG. 11	OFFICE: SMITHERS, B.C.	



LEGEND

- 5 GRANODIORITE TO QUARTZ MONZONITE
 - 4 FELSIC DIKES; QUARTZ FELDSPAR PORPHYRY
 - 3 MAFIC DIKES; ANDESITIC TO BASALTIC COMPOSITION
 - 2 LIMESTONE, IN PART RECRYSTALLIZED
 - 1 PHYLLITE, ARGILLITE, CHERT
- SYMBOLS**
- Outcrop boundary
 - Assumed Geological contact
 - Areas of trenching and reported Sulphide mineralization
 - Claim boundary
 - Stream and flow direction
 - Road
 - Foliation direction and dip
 - Joint/direction and dip
 - Bedding, contact attitude
 - Fault and movement direction if known
 - Claim post
 - Sulphide mineralization on surface
 - Adit location
 - Diamond drill hole location and direction (length and details not known)
 - Diamond drill hole location, - depth known
 - Noranda drill hole Lustdust, year, hole number, inclination, depth



REVISED Nov. 7, 1980	LUSTDUST PROPERTY	
Dec. 1981, Smithers, B.C. DOR (10/20/81) No. 1981 M. J. Smithers M. J. Smithers	GEOLOGY & DIAMOND DRILL HOLE LOCATIONS	
PROJ. No. 1055	SURVEY BY: S. E. P.	DATE: DEC. 1980
N.T.S. 93 N/11	DRAWN BY: S. N.	SCALE: 1:5,000
DWG No	NORANDA EXPLORATION	
FIG. 12	OFFICE: VANCOUVER, B.C.	

MAPPED USING DATA INTERPRETED FROM WARDEN'S, K.L.F., C.M., CHECKED ORIGINALLY MAPPED IN 1974, AND SURFACE INVESTIGATION DURING OCT. 1980.