

ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

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ASSESSMENT REPORT

describing

GEOLOGICAL MAPPING AND PROSPECTING

on the

PIGSKIN PROPERTY

Pigskin 1-28 Claims

YB75518-YB75545

093 980

Latitude 60°26' N; Longitude 130°17' W

NTS 105B/8

in the

WATSON LAKE MINING DISTRICT

YUKON TERRITORY

Prepared by

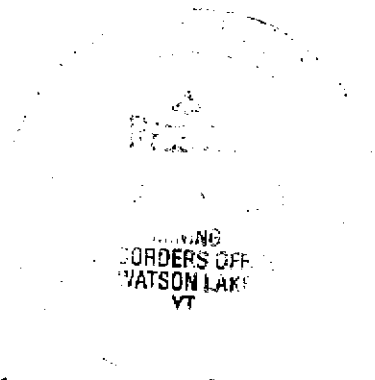
Archer, Cathro & Associates (1981) Limited

for

NORDAC RESOURCES LTD.

T. C. Becker, B.Sc., P.Geo.

March, 1999



This report has been examined by
the Geological Exploration Unit
under Section 32 (1) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ _____.

M. B. C.
for Regional Manager, Exploration and
Geological Services for Commissioner,
of Yukon Territory.

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INTRODUCTION

The Pigskin property consists of twenty-eight mineral claims owned 100% by Nordac Resources Ltd. The claims were staked in February 1996 to cover an area of moderately to strongly anomalous silver-lead-zinc soil geochemical response outlined by Amax Minerals Exploration in 1980. Work in 1996 by Nordac relocated the main geochemical anomaly, outlined numerous smaller anomalies and discovered massive galena float that assayed 3543 g/t silver and 81.1% lead. Exploration in 1997 was limited to one day of hand trenching at the massive galena float occurrence.

This report describes field work conducted on the Pigskin 1-28 claims in late July 1998. The work consisted of geological mapping, prospecting and hand trenching performed by a two-person crew working from a fly camp on the property. It was managed by Archer, Cathro & Associates (1981) Limited and supervised by the author. Appendix I contains the Author's Statement of Qualifications.

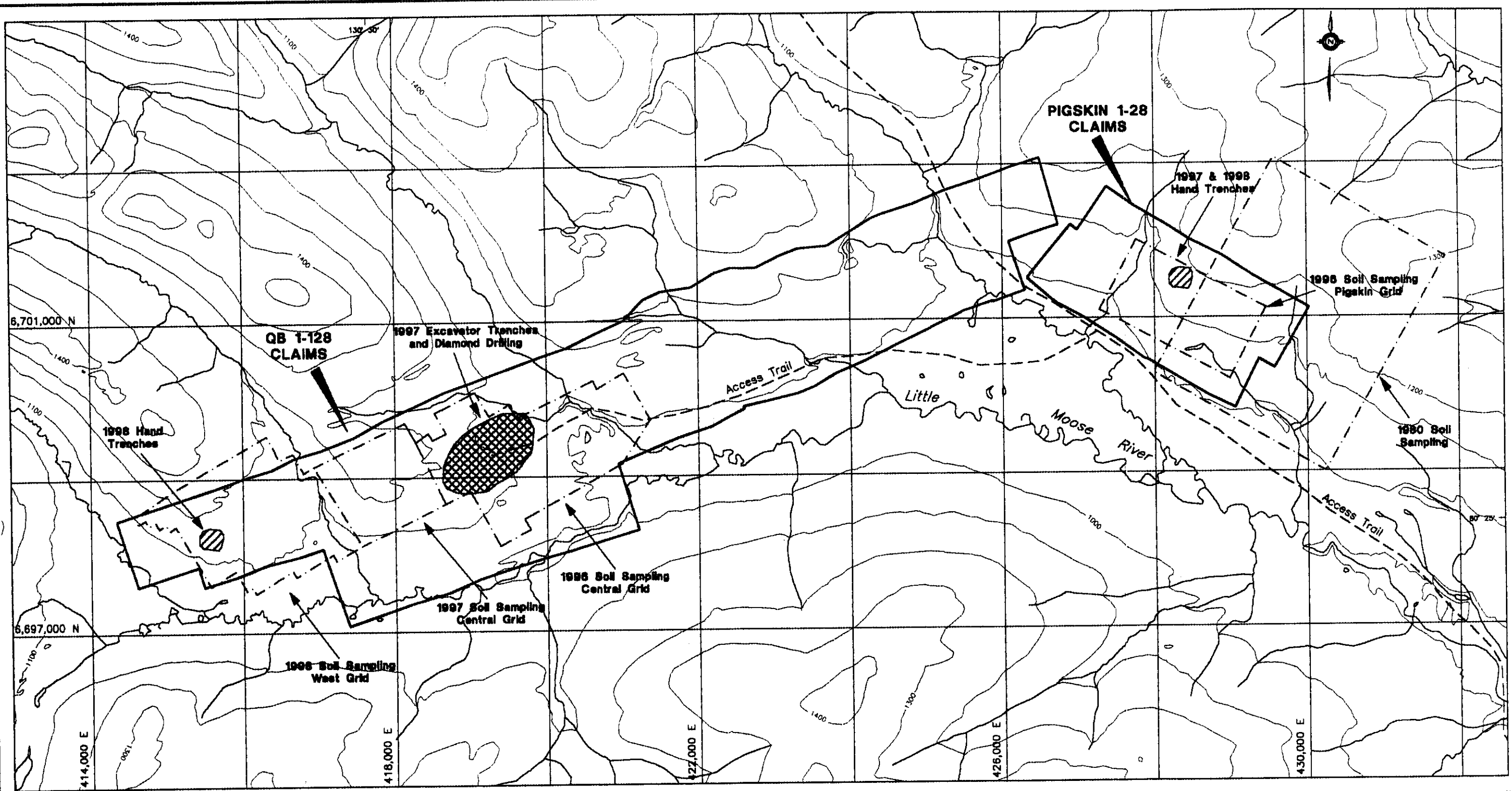
PREVIOUS WORK

The ground was previously staked by Regional Resources Ltd. as the Moose claims in March 1980 and briefly optioned that summer to Amax Minerals Exploration which performed geological mapping, prospecting and geochemical surveys. During that program approximately 900 grid soil samples were taken at 50 m intervals on lines spaced 200 m apart. This work outlined an 1100 by 300 m area of approximately coincident, moderately to strongly anomalous silver-lead-zinc geochemical response. Minor amounts of fracture filling galena- and sphalerite-bearing float were also noted (Verley, 1980).

In February 1996 following a research study of old assessment reports, Nordac restaked this anomaly and other nearby targets as the Pigskin and QB claims. Figure 1 is a compilation map showing work performed on the Pigskin and adjacent QB properties. Work by Nordac on the QB property is covered in separate reports by Wengzynowski, 1996a and 1997 and Becker, 1998.

During 1996 a four-person crew performed geological mapping, prospecting and grid soil sampling on the Pigskin property (Wengzynowski, 1996b). The grid soil sampling outlined a 700 by 300 m northwest trending silver-lead-zinc anomaly which roughly corresponds to the one found in 1980. No mineralization was discovered to explain this anomaly. Several smaller coincident silver-lead anomalies occur elsewhere on the grid. One of these anomalies in the northern part of the grid is associated with massive galena float discovered in 1996.

In 1997 three people performed one day of hand trenching in the area of the galena float. This work mapped the extent of the mineralized float but failed to find the bedrock source.



— Approximate claim outline

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FIGURE 1 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
HISTORICAL COMPILATION	
PIGSKIN PROPERTY	
DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-WORK.DWG	DATE: FEBRUARY, 1999

PROPERTY, LOCATION AND ACCESS

The property is located in the Rancheria area of southeast Yukon at latitude 60°26'N and longitude 130°17'W on NTS map sheet 105B/8 (Figure 2). It is comprised of 28 contiguous mineral claims (Figure 3) registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for Nordac Resources Ltd. Claim registration data are listed below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Pigskin 1-28	YB75518-YB75545	February 15, 2003

*Expiry date does not include work done in 1998 which has not yet been filed for credit.

In 1998 the property was accessed by helicopter from the abandoned Silver Hart Camp which is located 20 km to the southeast. The Silver Hart Camp is at the end of a 40 km road extending north from Km 1160 on the Alaska Highway. Helicopter support was provided by a Bell 206B Jet Ranger operated by Frontier Helicopters Ltd. from a permanent base in Watson Lake, approximately 110 km east of the property.

A bulldozer winter access trail built by Fairfield Minerals Ltd. in 1987 to access its Logan property parallels the southwest side of the Pigskin claims. This trail originates at Km 1107 on the Alaska Highway, some 25 km southeast on the property.

During the 1998 exploration program claim post locations and selected grid locations were surveyed using Trimble Geoexplorer GPS units. Field readings were corrected using base station data from Department of Renewable Resources (Forestry) at Whitehorse. GPS survey data appears in Appendix II.

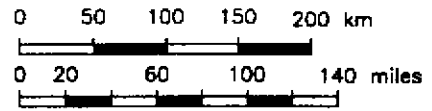
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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

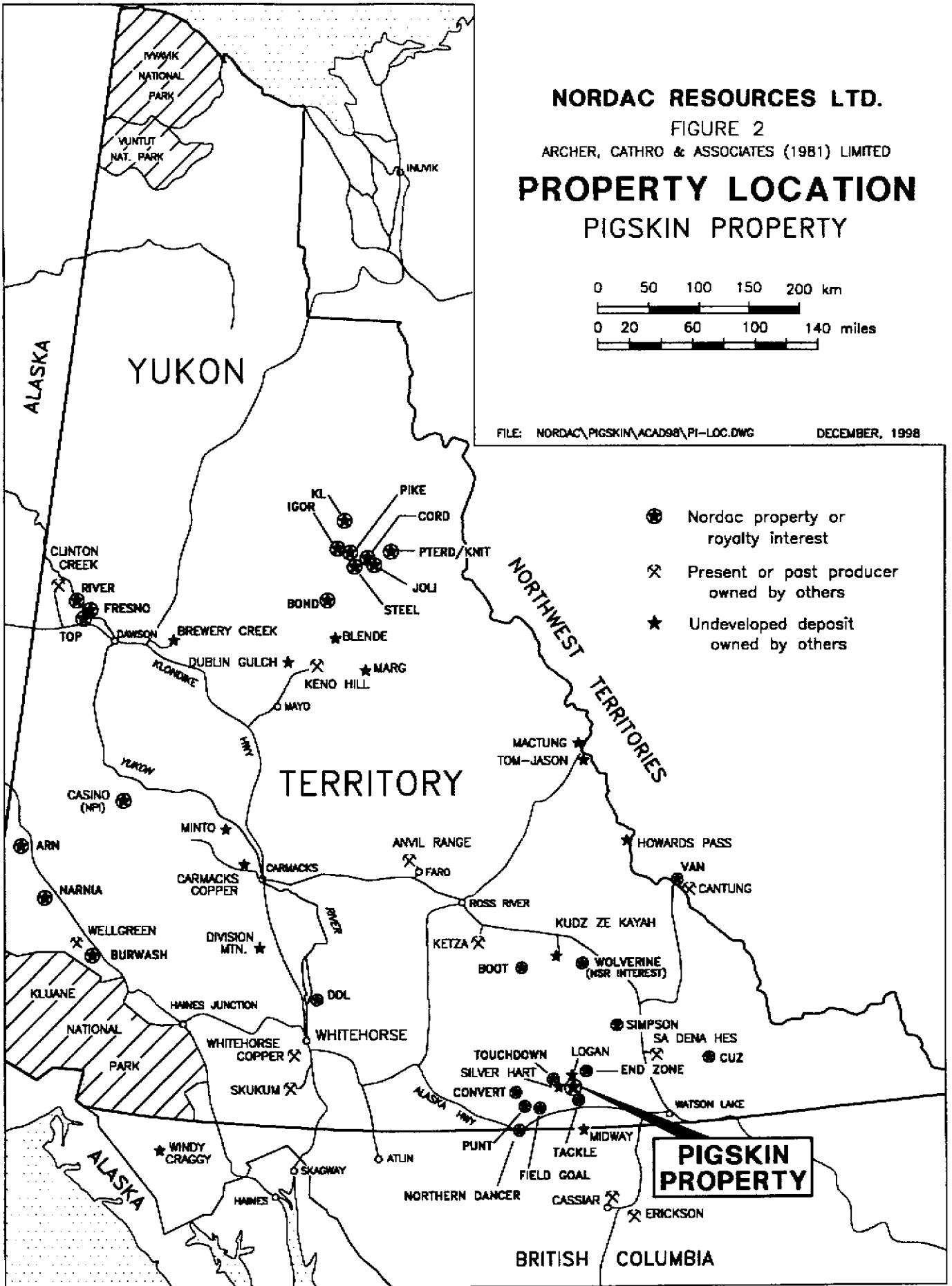
PIGSKIN PROPERTY

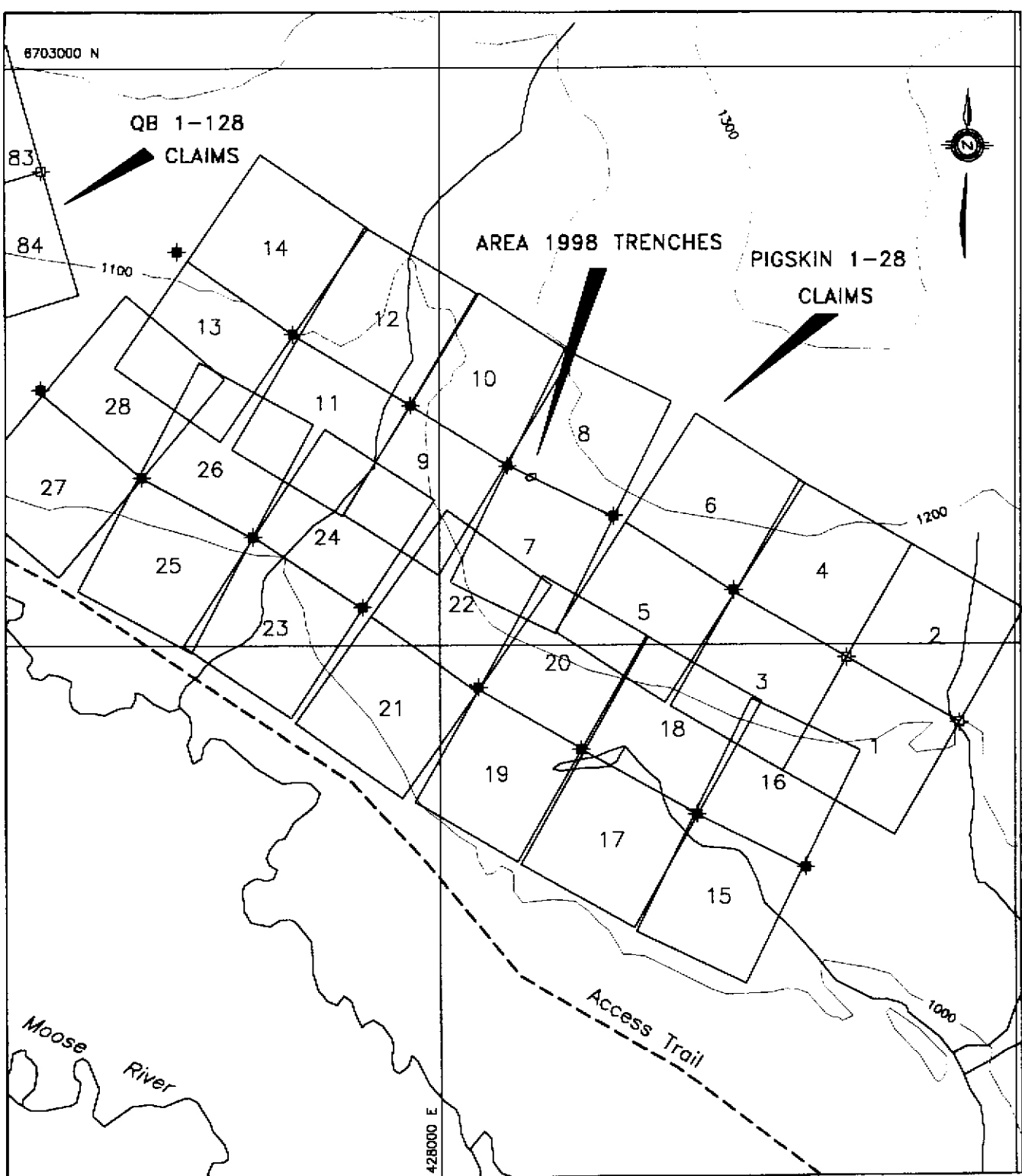


FILE: NORDAC\PIGSKIN\ACAD98\PI-LOC.DWG

DECEMBER, 1998

- Nordac property or royalty interest
- ⊗ Present or past producer owned by others
- ★ Undeveloped deposit owned by others





- ◆ Post location with standard GPS fix
- ⊕ Post location with poor GPS fix
- ⊞ Post location with uncorrected or no GPS fix

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FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION
PIGSKIN PROPERTY

0 500 1000 1500 m

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD88\PI-CLAIM.DWG	DATE: DECEMBER, 1998

GEOMORPHOLOGY

The Pigskin property covers relatively subdued south-facing slopes within the Cassiar Mountains immediately west of the Liard Plain. Creeks draining the property flow southward into the Little Moose River, a tributary of the Liard River watershed.

Local elevations range from 940 m near Little Moose River to a maximum of 1140 m. Topographic relief is gentle averaging 10° with occasional steeper areas in the vicinity of creek cuts. Pleistocene valley glaciers deposited a blanket of till ranging from 0.2 to 10 m thick over most of the property. Some areas are hummocky, resembling "kame and kettle"-type topography.

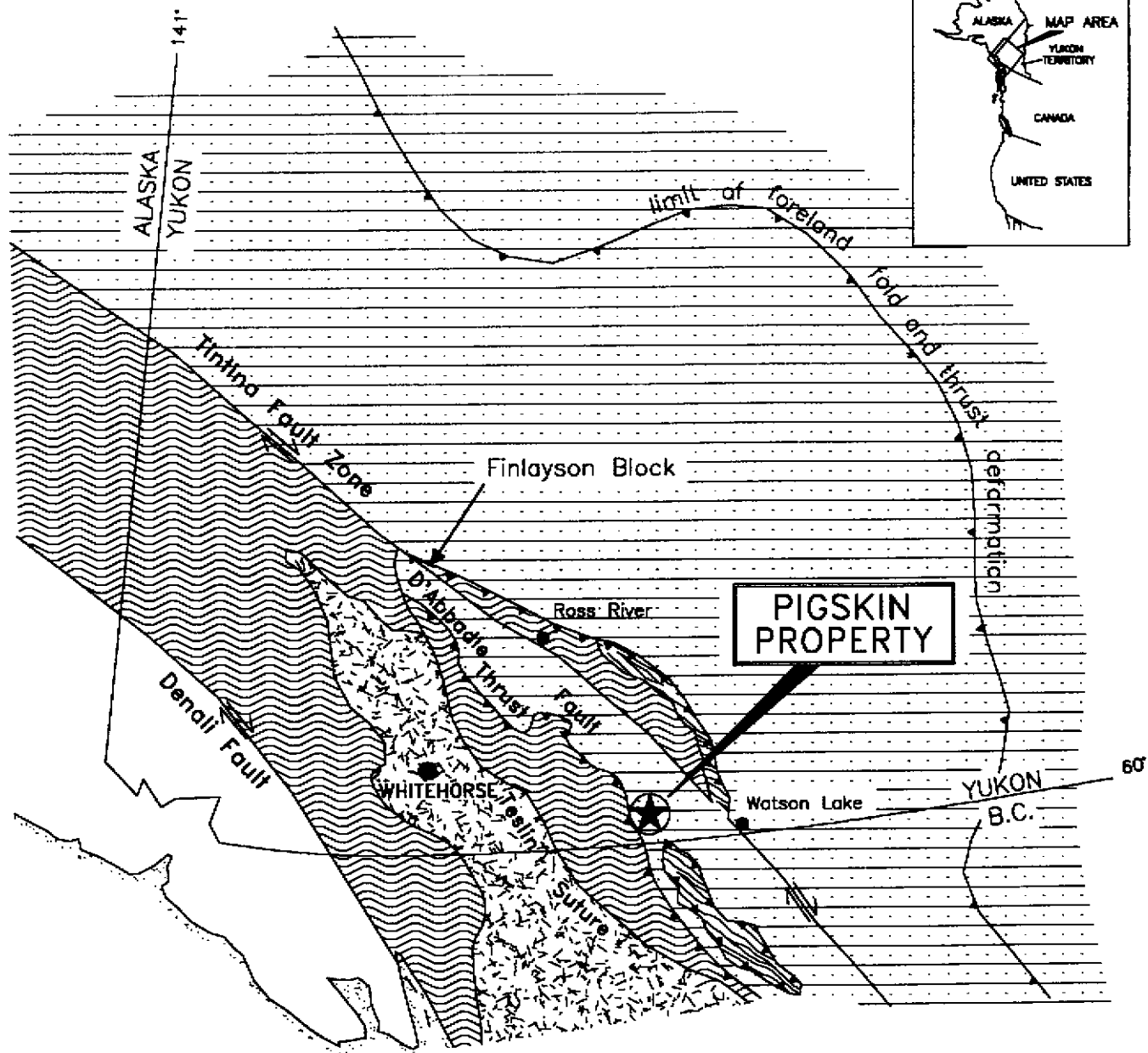
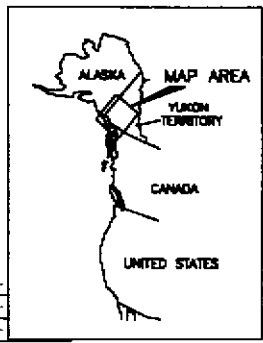
The entire property lies below treeline and vegetation consists of dense growths of spruce, birch and pine trees with alder and buckbrush undergrowth.







REGIONAL GEOLOGY


The Pigskin claims lie within a belt of metamorphic rocks belonging to the Yukon-Tanana Terrane and Cassiar Platform (Figure 4). This belt extends from northern B.C. across the Yukon into Alaska. The northeastern edge is defined by the Tintina Fault Zone, a series of subparallel transcurrent faults which have produced about 450 km of dextral offset in Late Cretaceous and/or Early Tertiary times (Tempelman-Kluit, et al, 1976). The southwestern side is bound by the Teslin Suture, an enigmatic zone composed of folds plus thrust and high angle faults.

Yukon-Tanana Terrane and Cassiar Platform rocks are composed largely of Paleozoic stratigraphy which has been intruded by Jurassic to Cretaceous plutons, as illustrated on Figure 5. Both terranes are considered "suspect terranes" representing variably distal metamorphosed equivalents of North American Continental Margin sediments. Yukon-Tanana, the furthest outboard of the two terranes, is overthrust onto Cassiar Platform rocks by the D'Abbadie Thrust Fault. Some imbrication of the two terranes is also recognized and the structural position is further complicated by normal faulting. The regional metamorphic fabric within both terranes trends northwesterly and dips moderately toward the northeast.

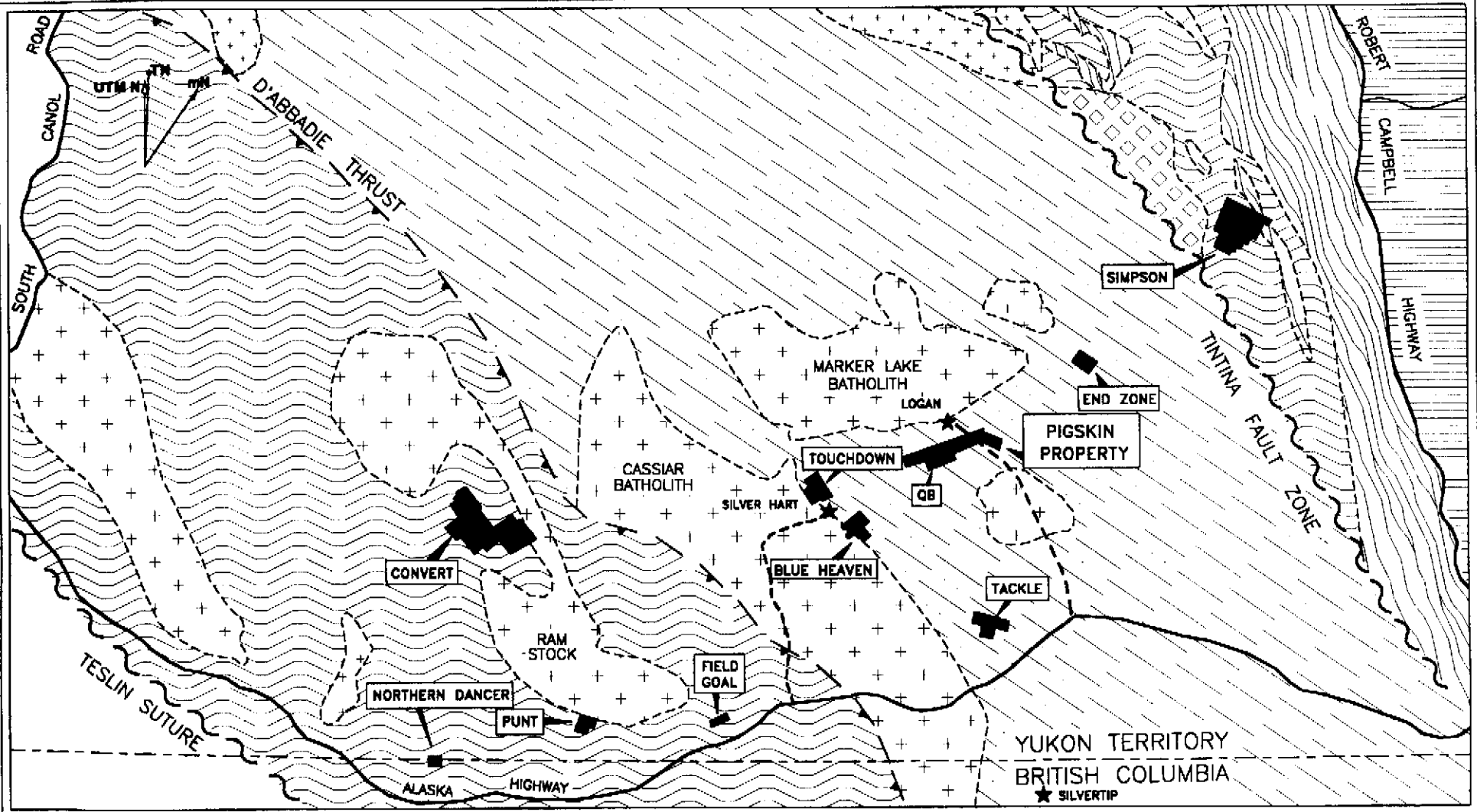
Although rocks of the Yukon-Tanana Terrane and Cassiar Platform are generally similar and are approximately the same age, the two packages are distinguished by higher proportions of carbonate strata in the Cassiar Platform and metavolcanics in the Yukon-Tanana Terrane. The Pigskin claims are believed to lie within the Cassiar Platform.






-  Thrust fault
-  Steep fault
-  Yukon-Tanana Terrane
-  Slide Mountain Terrane
-  Stikinia and other Terranes
-  Cassiar Platform and other North American Miogeoclinal Strata

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FIGURE 4 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
TECTONIC SETTING PIGSKIN PROPERTY	
	
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FILE: NORDAC\PIGSKIN\ACAD98\PI-TECTO	DATE: DECEMBER, 1998




Modified after Mortensen and Jilon (1985), Mortensen (1992) and Johnston and Mortensen (1994).




North American Miogeocline

-  Pre-Triassic sedimentary and volcanic rocks
-  Slide Mountain Terrane
Chert, ultramafic, metavolcanic, and carbonate rocks
-  Yukon-Tanana Terrane
Paleozoic metasedimentary and metavolcanic rocks

Cassiar Platform

-  Paleozoic metasedimentary and metavolcanic rocks
- Intrusive Suites**
-  Paleozoic metaplutonic rocks
-  Mesozoic plutonic rocks

-  Property owned by Nordac Resources Ltd.
- ★ Deposit owned by others
- Access road to property

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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
REGIONAL GEOLOGY
PIGSKIN PROPERTY



Geology in the Rancheria area was mapped at 1:250,000 scale in 1960 by the Geological Survey of Canada [GSC] (Poole et al, 1960). More detailed mapping in the Rancheria District (105B/1,2,7 & 8) was done in 1985 and 1986 at 1:50,000 scale by the Department of Indian and Northern Affairs [DIAND] (Lowey and Lowey, 1986; Amuken and Lowey, 1987) in response to numerous base and precious metal discoveries in the area.

REGIONAL MINERALIZATION

Over 140 mineral occurrences have been reported within the Yukon-Tanana Terrane and Cassiar Platform rocks on NTS mapsheet 105B (DIAND, 1995). The majority of the occurrences are found in the Rancheria area and consist of silver-lead-zinc±copper±gold veins with lesser tin-tungsten-zinc skarns. Several lead-zinc-silver replacement-type occurrences are also noted. The most significant discoveries in this region to date are vein and replacement-type mineralization at the Silvertip (Midway), Logan and Silver Hart Deposits. The Silvertip Deposit is classified as a replacement-type manto of Devonian age and has drill-indicated reserves of 1.9 million tonnes grading 410 g/t silver, 7.0% lead and 9.6% zinc (NBCMI, 1991). Vein/shear-hosted mineralization occurs within the Cretaceous Marker Lake Batholith at the Logan Deposit where reserves are estimated at 12.3 million tonnes grading 6.17% zinc and 26.0 g/t silver (DIAND, 1995). The Silver Hart Deposit consists of a series of high grade silver-bearing veins reportedly containing 99,000 kg of silver (DIAND, 1995).

PROPERTY GEOLOGY

Bedrock exposure on the property is poor (<1%) and generally restricted to creek cuts. Most rocks are moderately to strongly foliated with northwesterly strikes and undulating but relatively flat dips. Figure 6 illustrates property geology while Figure 7 shows detailed geology in the area of the 1997 and 1998 hand trenches. Most of the property is underlain by interbanded grit and schist units with lesser augen gneiss, all of which are believed to be part of the Cassiar Platform. Andesite and quartz-feldspar porphyry dykes are rare and were probably intruded during Cretaceous times. The five main rock types are described below.

Quartz Grits are well foliated, grey to tan weathering and exhibit blocky fracturing.

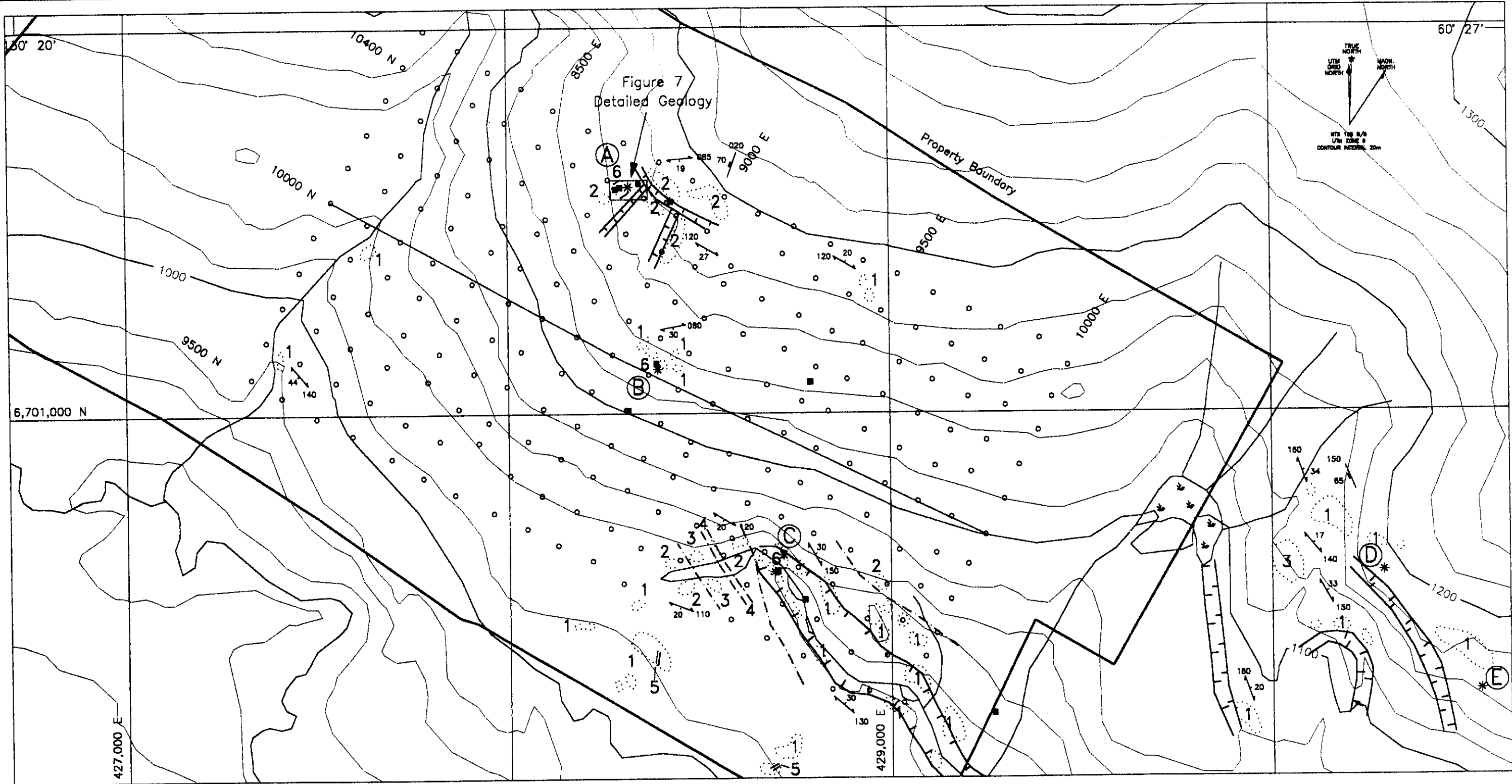
Compositions are variable with the following ranges for individual minerals.

Quartz matrix	50-90%
Muscovite	5-30%
Quartz eyes	0-10%
Feldspar	tr-30%
Biotite	tr-20%

Feldspar bearing specimens exhibit porphyritic textures while the more common micaceous grits are planar.

Muscovite±Biotite±Chlorite Schists are well foliated, grey to tan to green weathering and highly fissile. Mica booklets are well developed (up to 8 mm across) and in some specimens elliptical quartz-feldspar augens are present. Crenulations are common within the schists.

Quartz±Feldspar Augen Gneiss is well foliated, grey weathering and forms large blocky slabs. The matrix consists of quartz and lesser muscovite while augens are comprised of quartz and lesser feldspar. Augens range from 1 to 8 mm long and show variable flattening.



- | | | |
|---|---|--|
| <ul style="list-style-type: none"> 1 Quartz grit 2 Mu ± Bi ± Cl schist 3 Qz ± feldspar augen gneiss 4 Andesite 5 Qz ± feldspar porphyry 6 Mineralized float | <ul style="list-style-type: none"> ■ Rock sample location ○ Soil sample location * Mineralized float ⋯ Outcrop - - - Limit of mineralization — Assumed geological contact ▨ Gully ↗⁰⁸⁰₄₂ Foliation with orientation ↗¹¹⁰₈₈ Jointing with orientation | <ul style="list-style-type: none"> Ⓐ Showing, referred to in text |
|---|---|--|

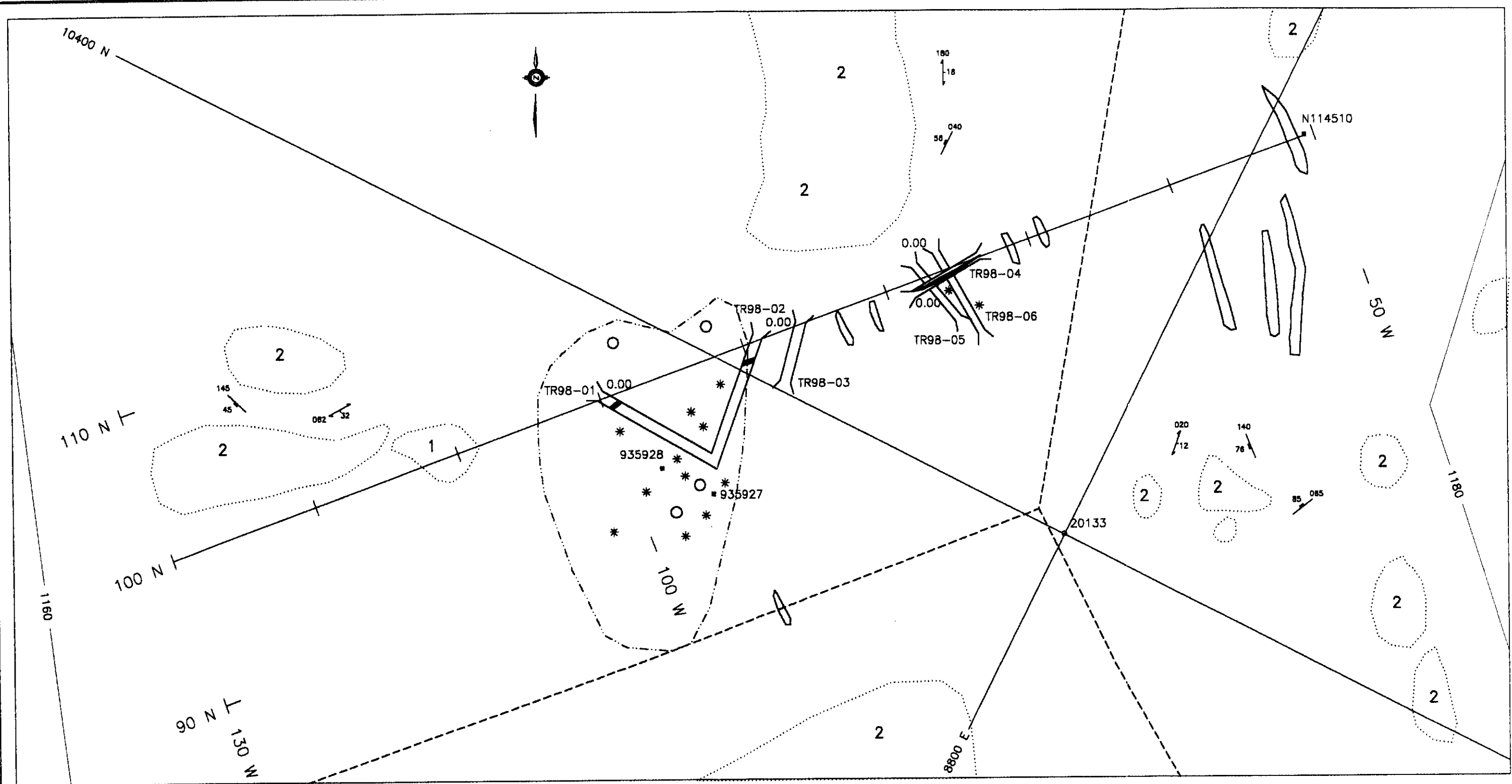
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FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

PIGSKIN PROPERTY

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-GEO.DWG	DATE: FEBRUARY, 1999



- 1 Quartz grit
- 2 Mu ± Bi ± Cl schist
- 3 Qz ± feldspar augen gneiss
- 4 Andesite
- 5 Qz ± feldspar porphyry
- Mineralized vein

- Rock sample location
- Soil sample location
- Mineralized float
- Outcrop
- Weak kill zone
- Claim line
- Linear gully
- Foliation with orientation
- Jointing with orientation

- Completed hand trench
- Incomplete hand trench
- Test pit

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FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DETAILED GEOLOGY
PIGSKIN PROPERTY

0 10 20 m

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-DET.DWG	DATE: FEBRUARY, 1999

Andesite is massive, pale to dark green and occurs as dykes and sills (0.1 to 2 m thick) within grit and schist units. Amygdules are common and contain quartz and carbonate.

Quartz±Feldspar Porphyry is massive, grey weathering and occurs as dykes (0.3 to 2 m thick) also within grit and schist units. The mineral assemblage consists of coarse-grained quartz and feldspar with occasional muscovite and biotite booklets (up to 5 mm across).

Structural interpretation is limited due to poor outcrop exposure; however, orthogonal joint sets are recognized in parts of the property. The general trends are northwest and southwest, coincident with dyke and vein orientations.

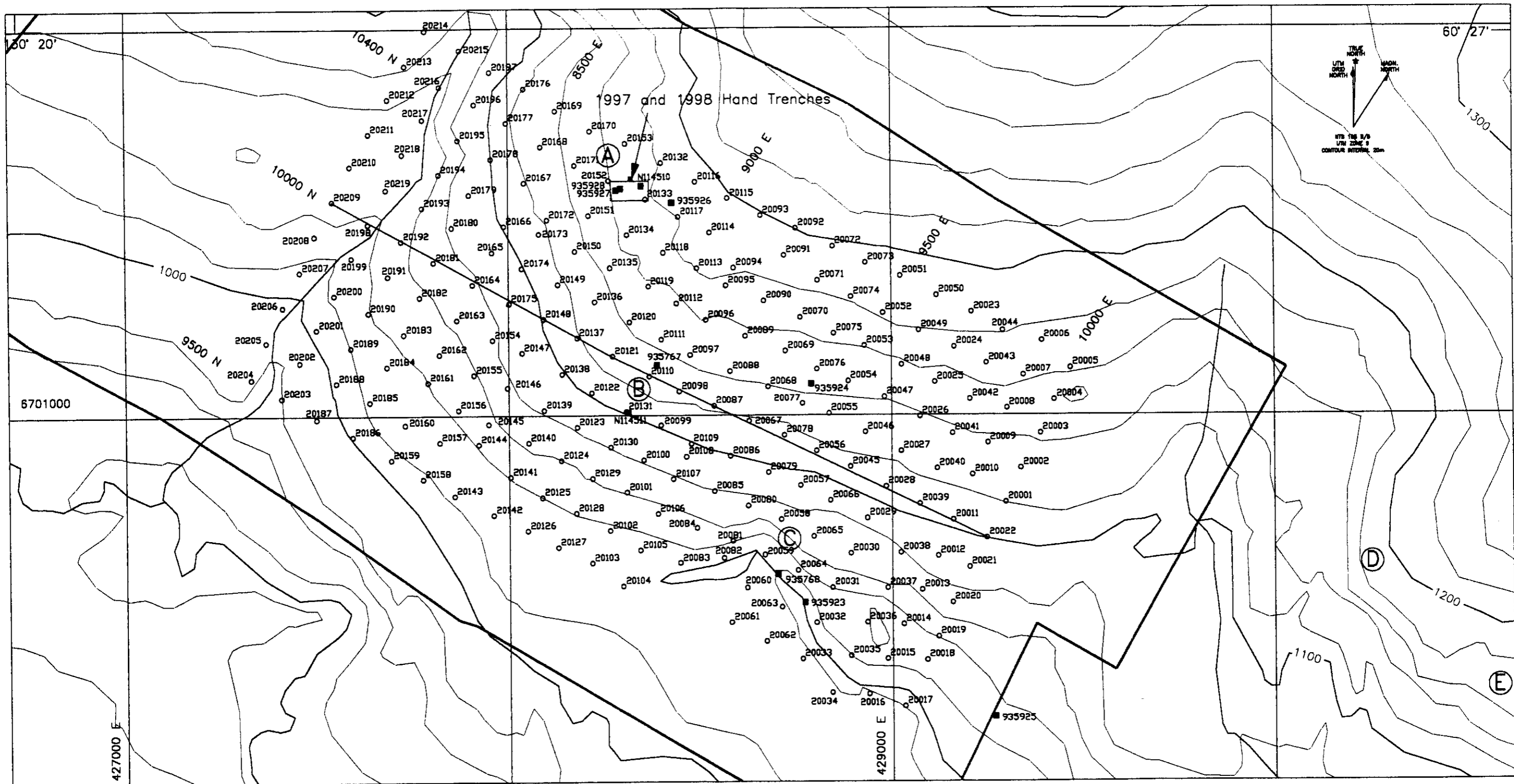
PROPERTY GEOCHEMISTRY

During the 1996 program soil samples were taken every 100 m along lines spaced 100 m apart (Wengzynowski, 1996b). Sample locations are plotted on Figure 8 while the results for three indicator elements (silver, lead, and zinc) are plotted on Figures 9 to 11. Anomalous thresholds and peak values are as follows.

Anomalous Thresholds (ppm) and Peak Values (ppm)

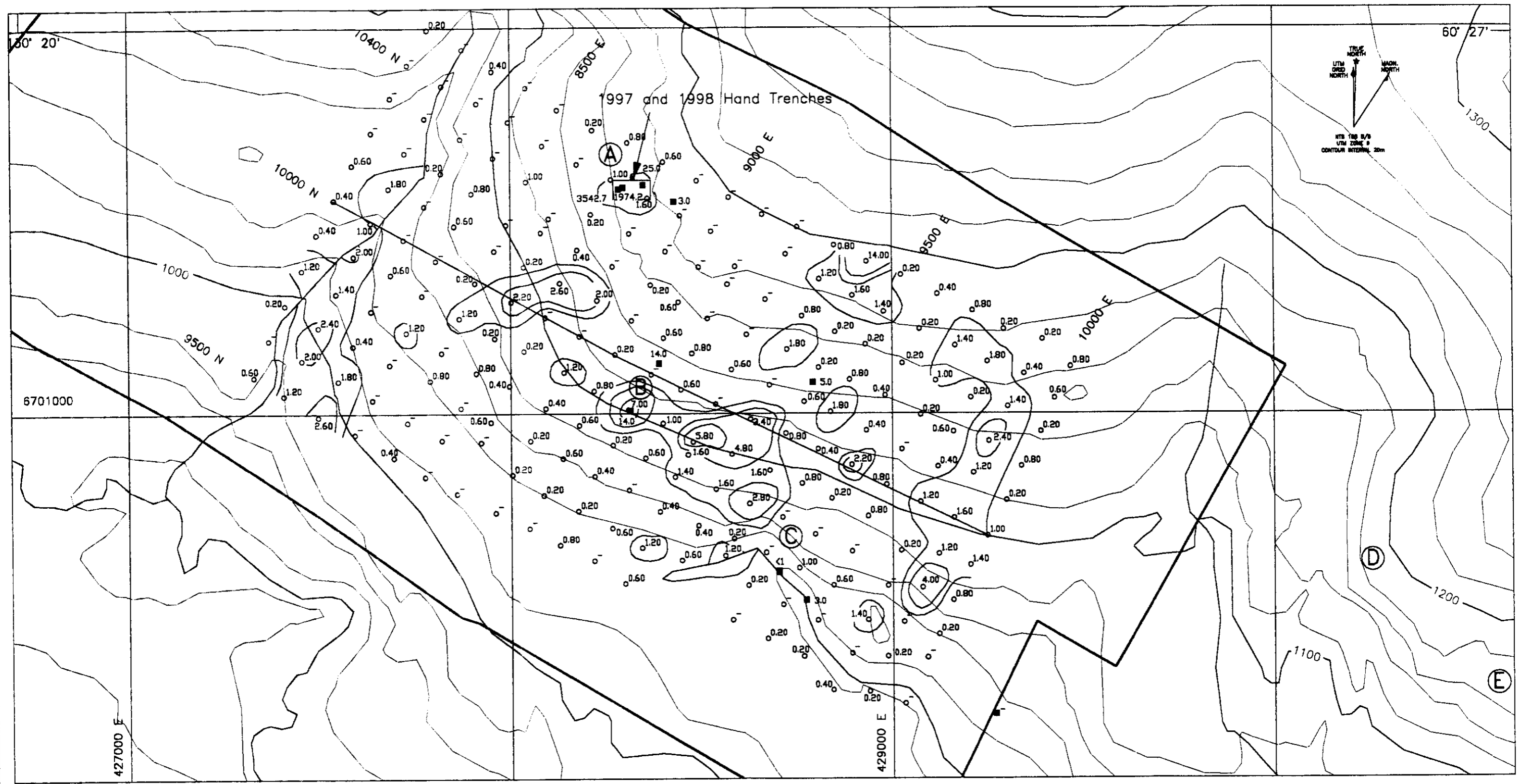
<u>Element</u>	<u>Weak</u>	<u>Moderate</u>	<u>Strong</u>	<u>Peak</u>
Silver	1	2	5	14
Lead	50	100	200	1215
Zinc	200	500	1000	2380

Geochemical response shows strongly coincident silver-lead-zinc anomalies over most of the grid. The largest anomaly, located near the centre of grid, is approximately 700 by 300 m as defined by moderately anomalous threshold values. The anomaly is irregularly shaped but for the most part trends northwest. Several smaller coincident silver-lead anomalies occur elsewhere on grid. At one of these anomalies in the northern part of the grid massive galena float was found.



○ 20153 Soil sample location with sample number
 ■ N114510 Rock sample location with sample number

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FIGURE 8 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
SAMPLE LOCATION	
PIGSKIN PROPERTY	
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FILE: NORDAC\PIGSKIN\ACAD98\PI-SNO.DWG	DATE: FEBRUARY, 1999



- ≥ 5 ppm Ag
- $\geq 2 < 5$ ppm Ag
- $\geq 1 < 2$ ppm Ag

- ^{2.6} Soil sample location with silver value in ppm
- ^{3.0} Rock sample location with silver value in ppm
- ⁻ Silver value below detection limit
- ⓔ Showing referred to in text

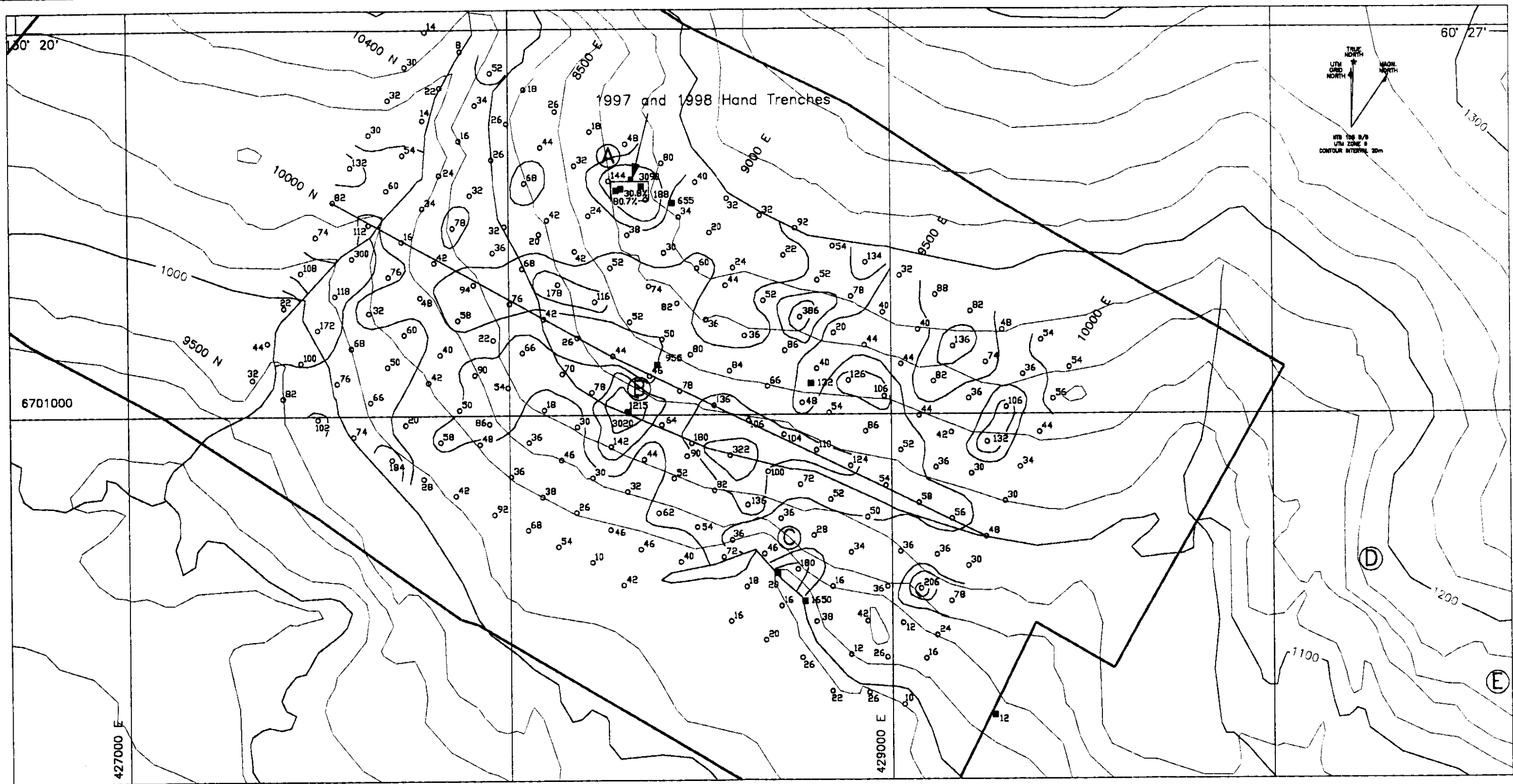
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FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER GEOCHEMISTRY
PIGSKIN PROPERTY

0 250 500 750 m

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-SNO.DWG	DATE: FEBRUARY, 1999



- ≥ 200 ppm Pb
- $\geq 100 < 200$ ppm Pb
- $\geq 50 < 100$ ppm Pb

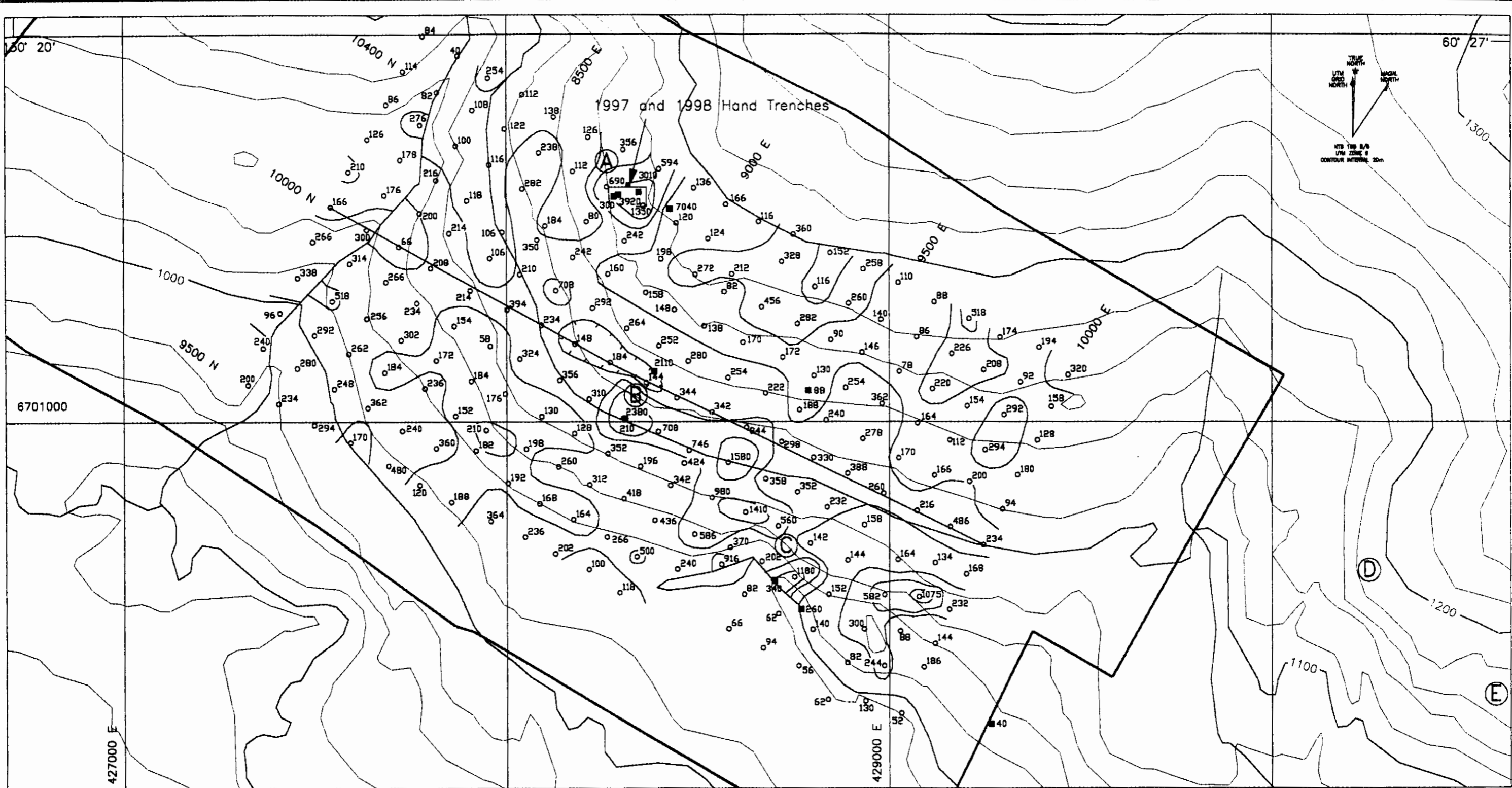
- ⁴⁸ Soil sample location with lead value in ppm
- ⁶⁵⁵ Rock sample location with lead value in ppm
- E Showing referred to in text

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FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD GEOCHEMISTRY
PIGSKIN PROPERTY

0 250 500 750 m

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-SNO.DWG	DATE: FEBRUARY, 1999



- ≥ 1000 ppm Zn
- $\geq 500 < 1000$ ppm Zn
- $\geq 200 < 500$ ppm Zn

- 690 Soil sample location with zinc value in ppm
- 1350 Rock sample location with zinc value in ppm
- E Showing referred to in text

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FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC GEOCHEMISTRY
PIGSKIN PROPERTY

0 250 500 750 m

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD98\PI-SNO.DWG	DATE: FEBRUARY, 1999

MINERALIZATION AND HAND TRENCHES

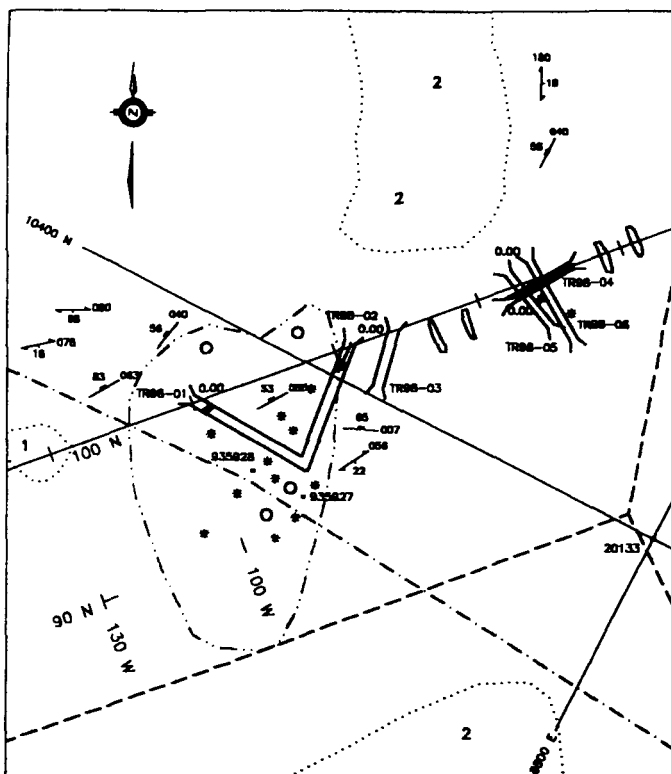
Prospecting and geological mapping have identified two types of mineralization in five showings on and adjacent to the property. Mineralization consists of either silver rich galena-sphalerite bearing vein or silver-lead-zinc replacement related to jasperoid alteration. The first type of mineralization has been found at Showing A while the second has been found at Showing B. It is not conclusive which type of mineralization is responsible for the soil geochemical anomalies at Showings C, D and E.

In 1998 Showing A was tested with detailed geological mapping, prospecting and six hand trenches while B and C were prospected. No work was done at Showings D and E. Descriptions of rock samples collected during prospecting appear in Appendix III while rock sample locations are shown on Figure 8. Work on Showing A is illustrated on Figure 7 and trench maps showing the locations of chip samples are shown on Figures 12 to 14.

Four rock samples and twelve chip samples were collected in 1998. All samples were sent to Chemex Labs Ltd. in North Vancouver where they were crushed and pulverized to more than 90%, 100 micron (-150 mesh) using a chrome-steel ring mill. Weakly mineralized samples were analyzed for 32 elements using the ICP technique while better mineralized samples were assayed for silver, lead and zinc. Certificates of Analysis are included in Appendix IV.

Showings

Showing A is associated with moderate to strong geochemical response for lead and zinc over an area 150 by 200 m. This showing was discovered in 1996 and consists of mineralized vein float within a 12 by 12 m kill zone. Two float samples were taken in 1996. The first sample



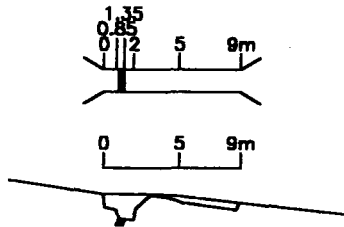
TR98-01 Sample Data

From (m)	To (m)	Sample Interval(m)	Sample No.	Ag (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)
0.00	1.00	1.00	935769	33.4	1.52%	260	75
1.00	1.35	0.35	935770	710	31.7%	1725	2860
1.35	2.00	0.65	935771	777	25.9%	1045	1765
		Grab	935927	3543	81.1%	250	300
		Grab	935928	1974	32.3%	3030	3920

TR98-02 Sample Data

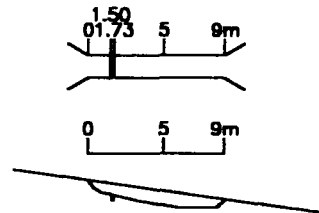
From (m)	To (m)	Sample Interval(m)	Sample No.	Ag (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)
0.00	1.50	1.50	935772	3.8	1290	1380	160
1.50	1.73	0.23	935773	2250	33.0%	835	1925
1.73	2.73	1.00	935774	97	1.68%	326	200

TR98-01



- 0.00-0.85m Quartz grit with moderate limonite coating and light grey color on fresh surfaces. Weakly broken with one 5 mm wide vein with minor coarse galena.
- 0.85-1.00m Broken grit, unit consists of <3 cm fragments in a soft clay matrix
- 1.00-1.35m Limonite coated vein with intense limonite coating strongly weathered vein. Vein breaks easily and is mixed with clay. Galena is commonly coated by cerussite and averages 7% of the vein.
- 1.35-2.00m Bleached and altered grit with weak limonite and no manganese. The unit is light grey in color and digs easily. Galena occurs along narrow veinlets.
- 2.00-5.00m Quartz grit with weak to moderate limonite and manganese coating a blocky hard unit.
- 5.00-9.00m Quartz grit, poorly exposed with no evidence of veins.

TR98-02



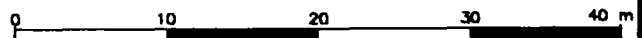
- 0.00-1.50m Quartz grit, weakly limonite and manganese coated with a light grey color. Weakly weathered, fractured and jointed rock.
- 1.50-1.73m 23 cm wide vein with <20% galena, moderate limonite and cerussite weathering around galena cores, minor sphalerite and sulphosalts or tetrahedrite.
- 1.73-5.00m Quartz grits with the strongest alteration/weathering at 1.73m and decreasing toward 5.0 m. Weak to moderate limonite and weak manganese coating.
- 5.00-9.00m Fresh quartz grits with only minor limonite and manganese coating. Well foliated with minor 1-3 mm wide quartz veins containing strong limonite/manganese but no sulphides.

- | | | | |
|---|----------------------------|-------|----------------------------|
| 1 | Quartz grit | • | Rock sample location |
| 2 | Mu ± Bi ± Cl schist | ○ | Soil sample location |
| 3 | Qz ± feldspar augen gneiss | * | Mineralized float |
| 4 | Andesite | ⋯ | Outcrop |
| 5 | Qz ± feldspar porphyry | --- | Weak kill zone |
| ■ | Mineralized vein | - - - | Claim line |
| | | - - - | Linear gully |
| | | — 080 | Foliation with orientation |
| | | — 110 | Jointing with orientation |
| | | — | Completed hand trench |
| | | — | Incomplete hand trench |
| | | ○ | Test pit |

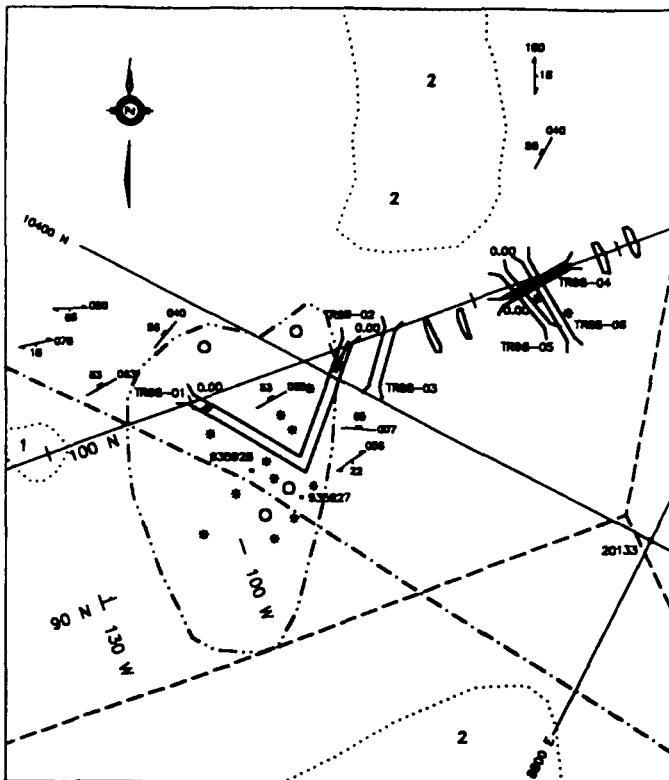
NORDAC RESOURCES LTD.

FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

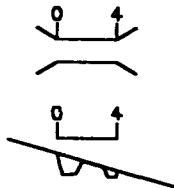
TR98-01 & 02
PIGSKIN PROPERTY



DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD88\PI-TR01.DWG	DATE: FEBRUARY, 1988



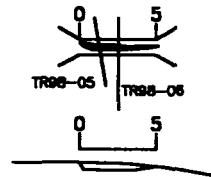
TR98-03



0.00-5.00m Quartz grit with moderate limonite and manganese coating. Nil to very weak alteration and no major veins.

3.5m Several 1-5 mm wide quartz veinlets in a 3-7 cm zone of weakly alkali-feld schist. No sulphides but strong limonite and manganese.

TR98-04



0.00-5.00m Galena vein usually with a rim of cerussite and limonite. Vein averages 70-80% galena with minor sphalerite, sulphosalts and trace tetrahedrite. The vein pinches at both ends of trench and the dip is variable.

- | | | | |
|---|----------------------------|-------|----------------------------|
| 1 | Quartz grit | • | Rock sample location |
| 2 | Mu ± Bi ± Cl schist | • | Soil sample location |
| 3 | Qz ± feldspar augen gneiss | * | Mineralized float |
| 4 | Andesite | ⋯ | Outcrop |
| 5 | Qz ± feldspar porphyry | --- | Weak kill zone |
| ■ | Mineralized vein | - - - | Claim line |
| | | - - - | Linear gully |
| | | — / — | Foliation with orientation |
| | | — / — | Jointing with orientation |
| | | — / — | Completed hand trench |
| | | — / — | Incomplete hand trench |
| | | ○ | Test pit |

NORDAC RESOURCES LTD.

FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR98-03 & 04
PIGSKIN PROPERTY

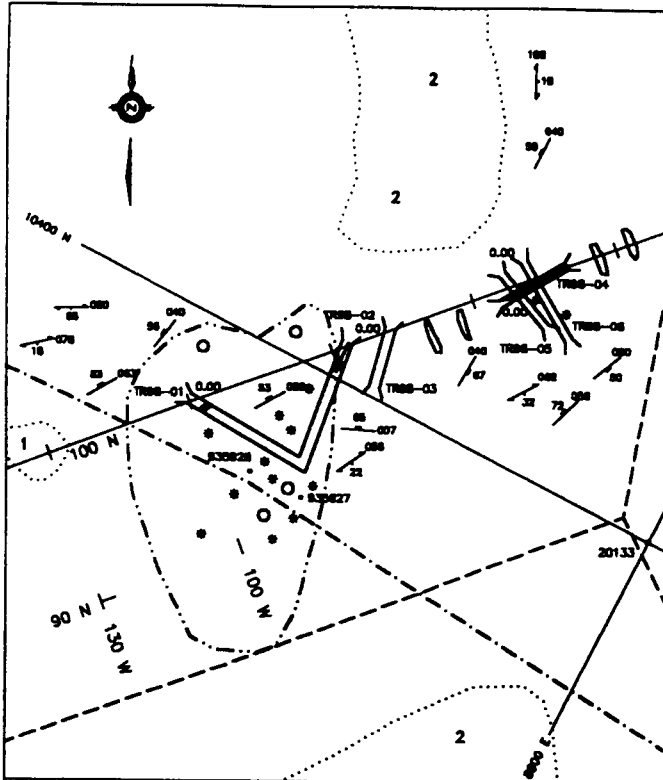


DRAWN/REVISED BY: TCB

PROJECT:

FILE: NORDAC\PIGSKIN\ACAD08\FI-TR03.DWG

DATE: FEBRUARY, 1989



TR98-05 Sample Data							
From (m)	To (m)	Sample Interval(m)	Sample No.	Ag (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)
0.00	1.35	1.35	935775	9.6	1880	568	50
1.35	1.90	0.55	935776	2270	58.3%	570	660
1.90	3.00	1.10	935777	60.8	25.9%	1320	128

TR98-06 Sample Data							
From (m)	To (m)	Sample Interval(m)	Sample No.	Ag (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)
0.00	1.35	1.35	935778	8.2	2120	492	108
1.35	1.70	0.35	935779	5725	70.8%	215	1185
1.70	3.00	1.30	935780	25.6	1.68%	1860	225

TR98-05

0.00-1.35m Quartz grits, hard, blocky and weakly weathered/altared.

1.35-1.65m 30 cm wide galena vein on the south side of trench and 50 cm on the north side of trench. 10 cm of the vein includes rusty gouge with small fragments of galena, the rest of the vein is massive galena with limonite and cerussite weathering rims around galena cores.

1.65-4.50m Quartz grits with weak weathering/alteration and weak limonite/manganese coatings.

at 2.85, 2.85, 3.30 and 4.00m are narrow breaks with stronger manganese and limonite along joints or narrow quartz veinlets.

TR98-06

0.00-1.35m Quartz grits, hard, blocky and weakly weathered with weak limonite and manganese coating

1.35-1.70m 35 cm wide galena vein, which includes 5 cm soft brown clay gouge and 30 cm massive galena with limonite and cerussite coating

1.70-6.00m Quartz grits with weak weathering/alteration and weak to moderate limonite and manganese coatings.

- 1 Quartz grit
- 2 Mu ± Bi ± Cl schist
- 3 Qz ± feldspar augen gneiss
- 4 Andesite
- 5 Qz ± feldspar porphyry
- Mineralized vein
- Rock sample location
- Soil sample location
- * Mineralized float
- ⋯ Outcrop
- - - Weak kill zone
- - - Claim line
- - - Linear gully
- ⌋ Foliation with orientation
- ⌋ Jointing with orientation
- ⌋ Completed hand trench
- ⌋ Incomplete hand trench
- Test pit

NORDAC RESOURCES LTD.

FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR98-05 & 06
PIGSKIN PROPERTY

DRAWN/REVISED BY: TCB	PROJECT:
FILE: NORDAC\PIGSKIN\ACAD88\PI-TR05.DWG	DATE: FEBRUARY, 1988

consisted of massive galena and returned 3543 g/t silver and 81.1% lead. The other sample was cerussite coated galena which returned 1974 g/t silver, 30.8% lead, 0.39% zinc and 0.3% copper. The average silver-to-lead ratio for these two samples is 48 to 1 which is slightly lower than the typical ratio for veins in the Rancheria area.

The 1998 hand trenches were designed to locate the source of the mineralized float and determine the vein's continuity and orientation. TR98-02 was dug near the top of the float train and exposed a 23 cm wide galena vein. Along strike to the west the vein was exposed in TR98-01 where it consists of strongly weathered galena with cerussite coatings. Prospecting further to the west did not find any additional vein float. Along strike to the east the vein was not found in TR98-03 or in two incomplete trenches; however, further to the east it is exposed in TR98-04. In this trench the vein can be followed for 5 m along strike. It has a maximum width of 50 cm but pinches at both ends. TR98-05 and TR98-06 were cut perpendicular across TR98-04 to better expose the vein and wallrocks.

The best chip sample from Showing A was from TR98-06 which returned 5725 g/t silver and 71% lead over 35 cm. The weighted average grade from four trench exposures is 2124 g/t silver and 56% lead over 53 cm, which includes some weakly mineralized wallrock.

Showing B consists of moderate to strong soil geochemical response over a zone of weakly mineralized float and bedrock. This is the site of the 700 by 300 m anomaly that was identified in 1980 and 1996. Prospecting in 1998 located a weak vegetation kill zone in an area of strongly silicified and moderately manganese-stained quartz grit. Mineralized rocks are weakly pitted and yellow-rusty weathering with up to 2% remnant pyrite. Limonitic fractures are common. Samples of this material returned up to 14 g/t silver, 3020 ppm lead and 2110 ppm zinc.

The soil geochemical anomaly trends northwesterly and is in the middle of a gentle south facing slope. Part of the anomaly is above the vegetation kill zone. Rock sample N114511 was taken at the bottom of the kill zone and returned moderately anomalous silver and lead values from a strongly weathered sample of jasperoid altered schist. A second rock sample (935767) taken at the top of the kill zone return moderately anomalous silver and zinc from strongly weathered jasperoid float with good boxwork limonite texture.

Showing C is located on the banks of a small creek draining a lake near the centre of the property. This showing was found in 1980 and attributed to mineralization in a fault zone (Verley, 1980). Soil samples taken on the north side of the creek returned weakly to moderately anomalous values. This area is underlain by strongly manganese stained float in a weak vegetation kill zone. Sample 935768 was taken on the south side of the creek from a small float train of strongly weathered, limonite/manganese coated grit. The sample yielded no significant metal values.

Showings D and E are about 500 to 1000 m east of the property and were not relocated in 1998. Showing **D** was described as quartz veinlets in sheared and brecciated rock, a sample of which returned 12 g/t silver, 1850 ppm lead and 580 ppm zinc (Verley, 1980). Showing **E** was described as highly fractured and intensely manganese stained grit with trace galena along some fractures. The best sample from this showing returned 1.2 g/t silver, 1060 ppm lead and 610 ppm zinc.

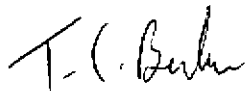
SUMMARY AND RECOMMENDATIONS

The Pigskin property is largely underlain by quartz grits and schists believed to be part of Cassiar Platform. Geochemical sampling in 1996 outlined a roughly northwest-trending coincident silver-lead-zinc anomaly near the centre of the grid, plus numerous smaller anomalies. Massive galena float was discovered in the vicinity of a secondary anomaly and returned up to 3543 g/t silver and 81.1% lead. Hand trenching of this target in 1998 exposed the vein intermittently for 25 m along strike. The best chip sample returned 5725 g/t silver and 71% lead over 35 cm.

Future work should consist of closer spaced soil sampling, detailed prospecting and hand trenching. The targets are higher grade, more continuous silver-lead veins or silver-lead-zinc replacement type mineralization.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



T. C. Becker, B.Sc., P.Geol.

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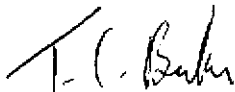
APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Thomas C. Becker, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Port Moody, British Columbia, do hereby certify that:

1. I graduated from the University of Alberta in 1989 with a B.Sc. (Honours) in Geological Sciences.
2. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia in the Province of British Columbia (registration number 20021).
3. I have been actively involved in mineral exploration in the Northern Cordillera since 1984.
4. I have personally participated in or supervised the field work reported herein.



Thomas C. Becker, B.Sc., P.Geo.

APPENDIX II
GPS SURVEY DATA

Pigskin Property
GPS Survey Coordinates

Data Quality: Standard = The surveyed positions were recorded in 3D mode and were differentially corrected. The reported UTM coordinates are within 1 to 5 meters of their actual locations; Poor = >25% of the surveyed positions were recorded in 2D mode; Uncorrected = The surveyed positions were not differentially corrected; N/S = No survey data available.

Base Station: W = Westmin Resources Limited base station at Wolverine Lake; WL = Ministry of Environment, Lands and Parks base station at Williams Lake; DL = Ministry of Environment, Lands and Parks base station at Dease Lake; RR = Department of Renewable Resources (Forestry) at Whitehorse.

A. Grid Station Points

Grid Coordinates		UTM Coordinates		Data Quality	Base Station	Date
Northing	Easting	Northing	Easting			
10000 N	8100 E	6701574	427530	Standard	RR	31-Jul-98
	9000 E	6701139	428322	Standard	RR	01-Aug-98
	9900 E	6700699	429113	Standard	RR	30-Jul-98
100 N	100 W	6701581	428308	Standard	RR	31-Jul-98

B. Nordac Resources Ltd. Claim Posts

Claim	Posts 1	Posts 2	UTM Coordinates		Data Quality	Base Station	Date
			Northing	Easting			
Pigskin	1, 2	-	-	-	N/S		
	3, 4	1, 2	-	-	N/S		
	5, 6	3, 4	6701177	429004	Standard	RR	30-Jul-98
	7, 8	5, 6	6701421	428602	Standard	RR	30-Jul-98
	9, 10	7, 8	6701611	428246	Standard	RR	31-Jul-98
	11, 12	9, 10	6701839	427895	Standard	RR	31-Jul-98
	13, 14	11, 12	6702365	427091	Poor	RR	31-Jul-98
	-	13, 14	6702351	427087	Standard	RR	31-Jul-98
Pigskin	15, 16	-	6700221	429267	Standard	RR	30-Jul-98
	17, 18	15, 16	6700430	428889	Standard	RR	30-Jul-98
	19, 20	17, 18	6700846	428502	Standard	RR	01-Aug-98
	21, 22	19, 20	6700873	428132	Standard	RR	01-Aug-98
	23, 24	21, 22	6701116	427747	Standard	RR	01-Aug-98
	25, 26	23, 24	6701352	427367	Standard	RR	01-Aug-98
	27, 28	25, 26	6701593	426985	Standard	RR	01-Aug-98
	-	27, 28	6701831	426606	Standard	RR	01-Aug-98

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

 Project: _____ Property: Pigskin

Page 1 of 2

Sample Number:	Grid North:	10000 N	Grid East:	9010 E	Type:	Float	Dimension:	4 X 4 m area	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935767	UTM:	N	UTM:	E	Sample Width:		Abundance:	Mainly in this area	14.0	955	2110	100
	Elevation:	m										

Comments: An area 4 X 4 m in size of float material near a pseudo outcrop 1 X 5 m in size. Float sample consisted of moderate to intense limonite with moderate manganese and good boxwork limonite texture along fractures or veinlets. The rock is quartz rich with a jasperoid appearance of silica flooding and replacement of the original rock. Sulphides are not visible and are likely all leached out. The wallrock is strongly weathered schist.

Sample Number:	Grid North:	9680 N	Grid East:	9580 E	Type:	Float	Dimension:	3X5 m float train	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935768	UTM:	N	UTM:	E	Sample Width:		Abundance:	Mainly in this area	<1	20	340	120
	Elevation:	m										

Comments: Sample taken from the south bank of a creek draining the lake which camp is on. The float train is 3 m wide and 5 m high. About 70% of material in the float train area consists of strongly weathered and strong to intense limonite and manganese coated grits unit. The sample taken contains narrow quartz veinlets and 3% pyrite within the veinlets. No other sulphides visible.

Sample Number:	Grid North:	100 N	Grid East:	50 W	Type:	Float	Dimension:	10 X 10 cm sample	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
N114510	UTM:	N	UTM:	E	Sample Width:		Abundance:	Not common	25.0	3090	3010	365
	Elevation:	m										

Comments: Float sample taken about 22 m at 070° from TR98-04. Sample consists of moderate to strong manganese and limonite coating grit unit. 5-10% of the samples are quartz veinlets averaging 3 mm wide but ranging from 1 to 5 mm with no visible sulphides but some boxwork limonite.

Sample Number:	Grid North:	9900 N	Grid East:	9000 E	Type:	Float	Dimension:	10 X 10 cm sample	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
N114511	UTM:	N	UTM:	E	Sample Width:		Abundance:	Fairly common	14.0	3020	210	20
	Elevation:	m										

Comments: Sample was taken at the bottom of slope which looks like a weak kill zone and has fairly common float samples of moderately to strongly limonite and manganese coated grit, some with narrow quartz veinlets. Sample taken at soil site BB20131 and consists of moderately to strongly limonite and manganese stained grit unit with 5-10% quartz. No visible sulphides but some boxwork limonite texture. There appears to be jasperoid quartz in the sample as a replacement of the original rock.

Sample Number:	Grid North:	9625 N	Grid East:	9650 E	Type:	Float	Dimension:		Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935923	UTM:	N	UTM:	E	Sample Width:		Abundance:		3.0	1650	280	66
	Elevation:	m										

Comments: 1996 sample taken on the bank of creek flowing from the lake near the camp.

Sample Number:	Grid North:	10150 N	Grid East:	9400 E	Type:	Float	Dimension:		Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935924	UTM:	N	UTM:	E	Sample Width:		Abundance:		5.0	132	88	99
	Elevation:	m										

Comments: 1996 sample

Rock Sample Descriptions

Project: _____ Property: Pigskin

Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935925	UTM:	6,700,221 N	UTM:	429,267 E	Sample Width:		Abundance:	<0.2	12	40	48
	Elevation:	m									
Comments:	1996 sample taken at the site of Posts #1 for Pigskin 15, 16. In this area are moderate to strong limonite coated grits.										

Sample Number:	Grid North:	10425 N	Grid East:	8875 E	Type:	Float	Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935926	UTM:	N	UTM:	E	Sample Width:		Abundance:	3.0	655	7040	25
	Elevation:	m									
Comments:	1996 sample										

Sample Number:	Grid North:	90 N	Grid East:	100 W	Type:	Float	Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935927	UTM:	N	UTM:	E	Sample Width:		Abundance:	3542.7	81.1%	300	250
	Elevation:	m									
Comments:	1996 sample										

Sample Number:	Grid North:	90 N	Grid East:	100 W	Type:	Float	Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
935928	UTM:	N	UTM:	E	Sample Width:		Abundance:	1974.2	30.8%	3920	3030
	Elevation:	m									
Comments:	1996 sample										

Sample Number:	Grid North:	N	Grid East:	E	Type:		Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
	UTM:	N	UTM:	E	Sample Width:		Abundance:				
	Elevation:	m									
Comments:											

Sample Number:	Grid North:	N	Grid East:	E	Type:		Dimension:	Ag(ppm)	Pb(ppm)	Zn(ppm)	Cu(ppm)
	UTM:	N	UTM:	E	Sample Width:		Abundance:				
	Elevation:	m									
Comments:											

APPENDIX IV
CERTIFICATES OF ANALYSIS



Chemex Labs Ltd.

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Y1A 3S9

Project: PIGSKIN
Comments:

Page number : 1
Total pages : 1
Certificate Date: 20-AUG-98
Invoice No. : 19827944
P.O. Number :
Account : MTT

CERTIFICATE OF ANALYSIS

A9827944

SAMPLE	PREP CODE	Ag con g/t										
935779	244 --	5725.3										

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 C/O ARCHER, CATHRO
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 WHITEHORSE, YT
 Y1A 3S9

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 18-AUG-98
 Invoice No. : 19827458
 P.O. Number :
 Account : MTT

Project : PIGSKIN
 Comments:

CERTIFICATE OF ANALYSIS A9827458

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm
935770	209 226	710	31.7	>200	0.42	2380	20	< 5	30	0.03	5	< 5	40	2860	17.65	< 10	0.13	0.01	330	5
935773	209 226	2250	33.0	>200	0.47	5330	< 20	< 5	< 10	0.02	5	< 5	30	1925	15.95	< 10	0.09	0.01	180	5
935776	209 226	2270	58.3	>200	0.12	1760	< 20	< 5	< 10	0.03	5	< 5	10	660	7.12	< 10	0.07	< 0.01	70	10
935779	209 226	>3500	70.8	>200	0.08	2310	< 20	< 5	< 10	0.02	5	< 5	< 10	1185	4.18	< 10	0.01	< 0.01	30	5

CERTIFICATION:

Harold Biddle



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Y1A 3S9

Project: PIGSKIN
Comments:

Page Number: 1-B
Total Pages: 1
Certificate Date: 18-AUG-98
Invoice No.: 19827458
P.O. Number:
Account: MTT

CERTIFICATE OF ANALYSIS

A9827458

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
935770	209 226	0.03	< 5	< 100	>50000	300	< 5	5	< 0.01	< 20	20	< 20	< 20	1725
935773	209 226	0.03	< 5	200	>50000	1550	< 5	10	< 0.01	< 20	20	< 20	< 20	835
935776	209 226	0.02	< 5	< 100	>50000	1890	< 5	5	< 0.01	< 20	20	< 20	100	570
935779	209 226	0.03	< 5	< 100	>50000	2580	< 5	25	< 0.01	< 20	< 20	< 20	< 20	215

CERTIFICATION:

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WHITEHORSE, YT
Y1A 3S9

Project: PIGSKIN
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Account: MTT

CERTIFICATE OF ANALYSIS

A9827457

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
935769	205 226	33.4	0.28	788	10	< 0.5	< 2	< 0.01	< 0.5	< 1	161	75	1.92	< 10	< 1	0.24	< 10	0.01	180	< 1
935771	205 226	>100.0	0.80	2270	10	< 0.5	< 2	< 0.01	5.0	< 1	184	1765	7.55	< 10	< 1	0.25	< 10	0.03	225	< 4
935772	205 226	3.8	0.57	98	30	0.5	< 2	0.03	5.0	4	149	160	1.97	< 10	< 1	0.30	30	0.02	3520	< 1
935774	205 226	>100.0	0.37	1525	30	< 0.5	< 2	< 0.01	0.5	< 1	171	200	3.17	< 10	1	0.33	10	0.01	240	< 1
935775	205 226	9.6	0.40	236	20	0.5	< 2	0.01	1.5	5	204	50	1.61	< 10	< 1	0.24	10	0.01	1620	4
935777	205 226	60.8	0.47	248	50	< 0.5	< 2	0.01	6.0	3	164	128	3.14	< 10	1	0.32	10	0.02	9300	< 1
935778	205 226	8.2	0.38	396	40	< 0.5	< 2	< 0.01	1.0	1	133	108	2.38	< 10	< 1	0.27	10	0.02	2840	< 1
935780	205 226	25.6	0.45	742	50	0.5	< 2	0.01	5.5	4	200	225	4.46	< 10	2	0.32	20	0.01	7350	5

CERTIFICATION:

Harry Biddle



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
935769	205 226	< 0.01	3	140	>10000	12	< 1	6	< 0.01	< 10	< 10	4	< 10	260
935771	205 226	< 0.01	8	110	>10000	252	1	13	< 0.01	< 10	10	8	< 10	1045
935772	205 226	< 0.01	10	460	1290	12	1	9	< 0.01	< 10	< 10	5	< 10	1380
935774	205 226	< 0.01	4	120	>10000	168	< 1	10	< 0.01	< 10	< 10	5	< 10	326
935775	205 226	< 0.01	8	220	1880	12	< 1	5	< 0.01	< 10	< 10	4	< 10	568
935777	205 226	< 0.01	7	320	>10000	32	1	21	< 0.01	< 10	< 10	4	< 10	1320
935778	205 226	< 0.01	4	220	2120	14	1	6	< 0.01	< 10	< 10	4	< 10	492
935780	205 226	< 0.01	8	500	>10000	24	3	18	< 0.01	< 10	< 10	5	< 10	1860

CERTIFICATION:

Harold Biddle



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SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
W114510	208 226	25	0.26	470	20	< 5	10	0.04	25	< 5	110	365	6.60	< 10	0.22	0.01	25300	5	0.03	< 5
W114511	208 226	14	0.28	280	20	< 5	10	0.03	< 5	< 5	110	20	1.05	< 10	0.27	0.02	270	< 5	0.03	< 5
935767	208 226	14	0.43	930	20	< 5	30	0.03	15	< 5	100	140	8.50	< 10	0.20	0.02	10770	5	0.03	15
935768	208 226	< 1	0.26	90	20	< 5	10	0.06	< 5	5	120	30	2.84	< 10	0.22	0.04	4060	5	0.03	5

CERTIFICATION:

Jan Bialle



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CERTIFICATE OF ANALYSIS

A9827456

SAMPLE	PREP CODE		P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
N114510	208	226	100	3090	10	< 5	35	< 0.01	< 20	< 20	< 20	< 20	3010
N114511	208	226	100	3020	10	< 5	5	< 0.01	< 20	< 20	< 20	20	210
935767	208	226	100	955	30	< 5	5	< 0.01	< 20	< 20	< 20	< 20	2110
935768	208	226	100	20	10	< 5	5	< 0.01	< 20	< 20	< 20	20	340

CERTIFICATION:

Handwritten signature