MAP NO.:	**ASSESSMENT REPORT** X	**DOCUMENT NO:** 092023	
	PROSPECTUS	**MINING DISTRICT:** WHITEHORSE	
115 N 2	**CONFIDENTIAL** X	**TYPE OF WORK:** GEOLOGICAL	
	OPEN FILE	GEOCHEMICAL	

REPORT FILED UNDER: HARTLEY/ALMBERG

DATE PERFORMED: 1991 **DATE FILED:** JAN 30, 1991

LOCATION: **LAT.:** 63°10'N **AREA:** MOOSEHORN RANGE

LONG.: 140°50'W **VALUE $:** ~~1,950~~ 9,750

CLAIM NAME & NO.: WIND 1-26

WORK DONE BY: G.S. HARTLEY & G.A. ALMBERG

WORK DONE FOR: AS ABOVE

DATE TO GOOD STANDING:

REMARKS: This relatively recently discovered placer camp has received a great deal of attention in recent years by explorationists seeking the bedrock source of the gold. Hartley & Almberg staked a N-S trending lineation and soil sampled a small portion. Trenching of visible linears commenced before soil results were returned. A 25 cm wide quartz vein was reported to assay 168 g/t Au. The reported `geological investigation` of the property is vague at best. No ~~geological or~~ trenching maps were included in the report.

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

M.R. file no.	
R.M.M.R. file no.	
Date forwarded	8 April 1991

TRANSMITTAL FORM

From ▶ Mining Recorder at: Whitehorse

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name		
☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name		Lease no.
☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name		Lease no.
☐ SECURITY DEPOSIT			
☐ FINANCIAL ABILITY			
☐ ASSIGNMENT OF PLACER LEASE NO.	From	To	
☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner		
☐ DIAMOND DRILL LOGS	Claims		Claim sheet no.
☑ QUARTZ ASSESSMENT REPORT	Claims: WIND 1-26		Claim sheet no.: 115-N-2
	Type of report: GEOLOGICAL	Submitted by: G. Hartley, G. Almberg	
	Cls. work performed on: Wind 1-26	(Plse approve for A Total $9750.00 includes previous Renewal Request)	$ req. for ren. application

Signature

REPLY ACTION

Date returned

Signature

802-37 (7-88)

GEOLOGICAL INVESTIGATION

092923 OF THE
WIND 1-26 CLAIMS

NTS 115N2

63° 10' NORTH
~~104°~~ 50' WEST
140

By

G.S. Hartley P. Geol.

and

G.A. Almberg P. Geol.

January 1991

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 1,950.

D J Bartlett

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

TABLE OF CONTENTS

I. SUMMARY

Placer gold was first discovered in the area by M. Kenyon in 1975. Initial production occurred in 1976 and the area has produced continuously since that time.

Creeks that were recognized to contain gold included Kenyon, Swamp, Soya, and Great Bear. Test pitting and placer drilling on other creeks of the area has yielded positive results.

The geology of the region is not mapped in detail. Limits or controls to lode mineralization have never been established, thus the extent of placer deposits of the region is unknown.

II. LOCATION AND ACCESS

Swamp Creek is located in the Ladue River area NTS 115N2. Situated immediately east of the Alaska Yukon border the area is bounded by latitudes 63°OON to 63°15'N and longitudes 140°40' west to 141°00 west.

Access to the area is provided by fixed wing aircraft from Dawson City, a distance of 145 km. Winter access is by 65km tote trail from the Alaska Highway, west of Beaver Creek.

An excellent system of local roads connect past and current mining sites to the airstrip.

III. PHYSIOGRAPHY

The region has not suffered continental glaciation. Outcrops are restricted to heights of land where boulders and felsemeer predominate. Erosion and weathering have resulted in the development of residual soil on the intermediate slopes.

Placer deposits are covered by variable thickness of "black muck" or fine grained organic deposits.

The area is designated as a continuous permafrost zone.

IV. REGIONAL GEOLOGY

The Geology of the area, although poorly exposed, is known to consist of metasedimentary rocks intruded by granodioritic phases of the Klotassin Batholith (Templeman-Kluit 1974).

A. METASEDIMENTARY ROCKS

The metasedimentary rocks of the area outcrop to the west along the top of the Moosehorn range and consist of biotite quartz feldspar schists.

B. INTRUSIVE ROLES

The Klotassin Batholith is a northwest tending mass of granitic rocks extending over 300 km as described by Templeman-Kluit (1974).

In the region this batholith consists of three phases.

1. Early foliated hornblende granodiorite.
2. Massive equigranular to porphyritic bodies of biotite hornblende granodiorite to quartz monzonite.
3. Late granodiorite to quartz diorite porphyry dykes, and plugs.

V. LOCAL GEOLOGY

Excellent bedrock exposures afforded by 14 years of mining operations in the Swamp Creek area provide a variety of hitherto unrecognized rock type and geological relationships.

Observed lithologies remained basically those of the Koltissin batholith and related dykes and are here described.

1. Foliated Granodiorite

This unit occurs along Kenyon Creek and the ridge between Kenyon and Swamp Creeks. Extensively foliated with amphibole and biotite along foliation planes within coarsely grained plagioclase and quartz, this rock weathers greyish cream, with partings parallel to foliation.

2. Massive Granodiorite

This unit occurs in the upper portion of Kenyon Creek and on top of the Moosehorn range west of Brandt Peak.

This unit is similar in composition to the foliated unit (in hand specimen). The most obvious difference being the lack of foliation, contacts are gradational over excellent exposure.

3. BROWN VOLCANICS

This fine grained felsic unit occurs as thin tabular dyke like structures approximately 2 to 3 meters in thickness and up to 100 meters in length, possibly emplaced along faults and possibly coeval with unit 4.

4. BRANDT INTRUSIVE COMPLEX (LOCAL NAME)

A group of related intrusives outcropping near the eastern end of the Moosehorn Range.

The complex consists of a central feldspar porphyry stock and a marginal amphibole porphyry unit. The complex is identified by euhedral plagioclase feldspar laths up to 1 cm in an aphanetic to fine grained matrix of quartz and biotite with variable euhedral amphibole content.

This unit though not observed to outcrop on the claims is thought to occur as a major intrusive event and may be related to unit 3.

5. QUARTZ VEINS

White quartz veins to 30 cm in width contain galena arsenenopyrite stibnite and free gold. No veins are known to outcrop within the "NOW" claims although quartz boulders occur in creek gravels in Swamp Creek.

VI. AIR PHOTO INTERPRETATION

Photo analysis of the area covered by photo #A27383 suggests strong linear control at the head of the streams flowing northwest into Alaska.

The Wind claims were staked along this feature on the basis that it is a major fault controlling mineralization in the area.

Assessment work was initiated in 1990 to evaluate this hypothesis.

VII. GEOCHEMISTRY

A small program of soil sampling was initiated to test the possibility that gold mineralization could be associated with a strong linear feature that parallels the location line of the Wind claims. Trenching elsewhere (Red 1 to 8 claims) on this structure has yielded a quartz vein within a strongly altered zone. Assays in excess of one ounce Au/ton occur over 16 inches. Numerous quartz boulders occur in creek gravels at and below the intersection of this linear feature and "Owens Creek" (local name).

SURVEY DATA

Forty-three soil samples were collected on a grid located east of Owens Creek. Grid lines were approximately 1000 feet long and 400 feet apart. Samples were taken along 3 grid lines at 50 foot intervals. Samples were dried and shipped to Bondar Clegg in Vancouver for analysis.

VIII. INTERPRETATION OF SOILS DATA

The average value of gold in soils taken on this grid is 20ppb Au.

It should be noted that this value differs substantially from other soil surveys done by the authors in the region where background was found to be 5ppb Au.

For interpretative purposes 20ppb Au is considered to be background for this survey.

The grid data is contoured using values of X, 2X and 4X (where X=20ppb Au).

The contoured data indicates a strong linear high approximately parallel to and 700 meters west of the grid base line. A linear zone of higher values was noted to cross all three lines for a total distance of 800 meters. The anomaly appears to be open along both directions and is located near and parallel to the projected trace of a major fault in the area.

IX. TRENCHING

Although soil sampling results were not yet available, a small program of trenching by a Case 580 backhoe and a Terex 82-40 crawler were carried out on well defined structural linear as it crosses the ridge spine between Kenyon and Owens Creek. At this location overburden was thought to be shallowest and the presence of discontinuous permafrost least likely.

Trenching first by backhoe encountered difficult permafrost. Approximately two weeks later a Terex 82-40 tractor was mobilized to the site and was successful in enlarging the existing trench. However trenching efforts were hampered by extremely soft ground interpreted as a strongly sheared and kaolinized altered zone.

X. RECOMMENDATIONS

More trenching work is necessary to uncover a mappable exposure in the area of the geochem anomalies.

XI. STATEMENT OF EXPENDITURE

Truck travel in Yukon (1000 km)		280.00
Air Charter	368.00/trip	736.00
Food and Supplies		500.00
Assay		663.55
Equipment Rental:		
	Honda 4 Track 5days @ $50/day	250.00
	Backhoe 10hrs @ $50/hr	500.00
	Terex 20hrs @ $100/hr	2000.00
P. Geol. Fees	$500/day x 5 days x 2 men	5000.00
		9929.55

XII. CLAIMS COVERED BY THIS REPORT AND TO WHICH ASSESSMENT CREDIT IS TO BE APPLIED

Claims	Grant Numbers
WIND 1 to 26	YB 27350 to YB 27375

REFERENCES

Morin, J.A. 1976 "Geology, Lode and Placer Gold Mineralization of the Moosehorn Range" D.I.A.N.D. Mineral Industry Report.

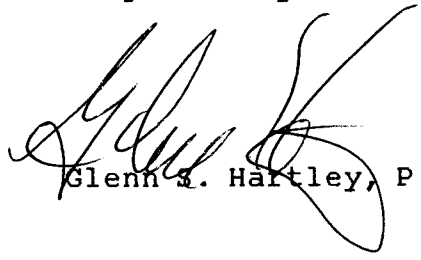
Templeman-Kluit D.J. 1974; "Reconnaissance Geology of Aishikik Lake, Snag and Part of Stewart River Map West-Central Yukon." GSC paper 73-41

CERTIFICATE

I. Glenn S. Hartley of 7302-118A Street hereby state that:

1. I am a graduate of the University of Alberta, Department of Geology (B.Sc. Specialization 1977).
2. I am a registered professional geologist in the province of Alberta.
3. I am a member of the CIMM and EGS.
4. Since 1970 I have been employed by various exploration firms and have conducted field programs in Alberta, British Columbia, Saskatchewan, Northwest Territories and the Yukon.
5. I have a direct interest in lode and placer claims in the region of this report.

Respectfully submitted,



Glenn S. Hartley, P. Geol.

CERTIFICATE

I. Glen A. Almberg of 3516-87 Street hereby state that:

1. I am a registered professional geologist in the province of Alberta.
2. I am a member of CSPG and EGS.
3. Since 1961 I have been active in geological exploration through teaching and employment with resource companies.
4. I have a direct interest in lode claims in the region of this report.

Respectfully submitted,

Glen Almberg

Glen Almberg, P. Geol.

APPENDIX I

TABLE OF APPENDICES

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 17-JUL-90

REPORT: V90-36139.0

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB	SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB
S1 NOW 0+00		<5	S1 WEST RECON 3		6
S1 NOW 0+10N		<5	S1 WIND 0S 1000W		21
S1 NOW 0+20S		<5	S1 WIND 0S 950W		6
S1 NOW 15+50N		7	S1 WIND 0S 900W		20
S1 NOW 15+60S		<5	S1 WIND 0S 850W		17
S1 NOW 15+70N		<5	S1 WIND 0S 800W		9
S1 NOW 15+80S		<5	S1 WIND 0S 750W		36
S1 NOW 15+90N		<5	S1 WIND 0S 700W		34
S1 NOW 15+100S		<5	S1 WIND 0S 600W		95
S1 NOW 15+110N		<5	S1 WIND 0S 550W		19
S1 NOW 15+120S		<5	S1 WIND 0S 500W		35
S1 NOW 30+0N		<5	S1 WIND 0S 450W		30
S1 NOW 30+10S		<5	S1 WIND 0S 400W		9
S1 NOW 30+20N		<5	S1 WIND 0S 200W		37
S1 NOW 30+30S		<5	S1 WIND 0S 0W		20
S1 NOW 30+40N		<5	S1 WIND 400S 1000W		11
S1 NOW 30+50S		<5	S1 WIND 400S 950W		<5
S1 NOW 30+60N		<5	S1 WIND 400S 900W		34
S1 NOW 30+70S		<5	S1 WIND 400S 800W		12
S1 NOW 30+80N		<5	S1 WIND 400S 750W		<5
S1 NOW 30+90S		<5	S1 WIND 400S 700W		13
S1 NOW 30+100N		6	S1 WIND 400S 650W		11
S1 NOW 30+110S		<5	S1 WIND 400S 600W		31
S1 NOW 30+120N		<5	S1 WIND 400S 550W		9
S1 NOW 30+130S		6	S1 WIND 400S 500W		9
S1 NOW 45+0N		<5	S1 WIND 400S 450W		<5
S1 NOW 45+10S		<5	S1 WIND 400S 400W		7
S1 NOW 45+20N		<5	S1 WIND 400S 200W		5
S1 NOW 45+30S		<5	S1 WIND 400S 0W		19
S1 NOW 45+40N		<5	S1 WIND 800S 1000W		13
S1 NOW 45+50S		<5	S1 WIND 800S 950W		6
S1 WEST RECON 1000W		<5	S1 WIND 800S 900W		17
S1 WEST RECON 950W		<5	S1 WIND 800S 850W		12
S1 WEST RECON 850W		8	S1 WIND 800S 800W		81
S1 WEST RECON 800W		<5	S1 WIND 800S 750W		17
S1 WEST RECON 700W		<5	S1 WIND 800S 700W		15
S1 WEST RECON 400W		15	S1 WIND 800S 650W		13
S1 WEST RECON 0		<5	S1 WIND 800S 600W		26
S1 WEST RECON 1		<5	S1 WIND 800S 550W		15
S1 WEST RECON 2		<5	S1 WIND 800S 500W		26

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

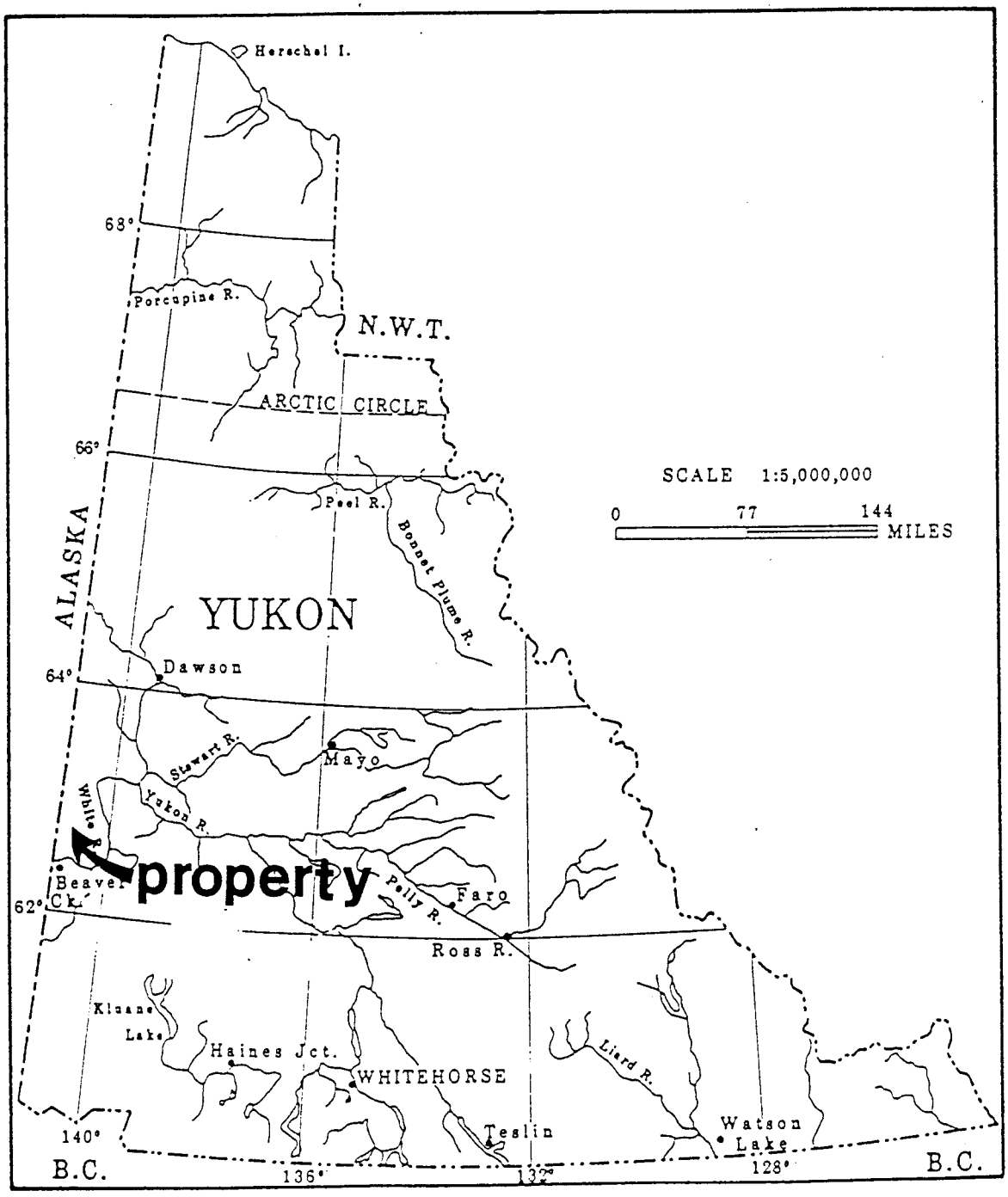
DATE PRINTED: 17-JUL-90

REPORT: V90-00139.0

PROJECT: NONE GIVEN

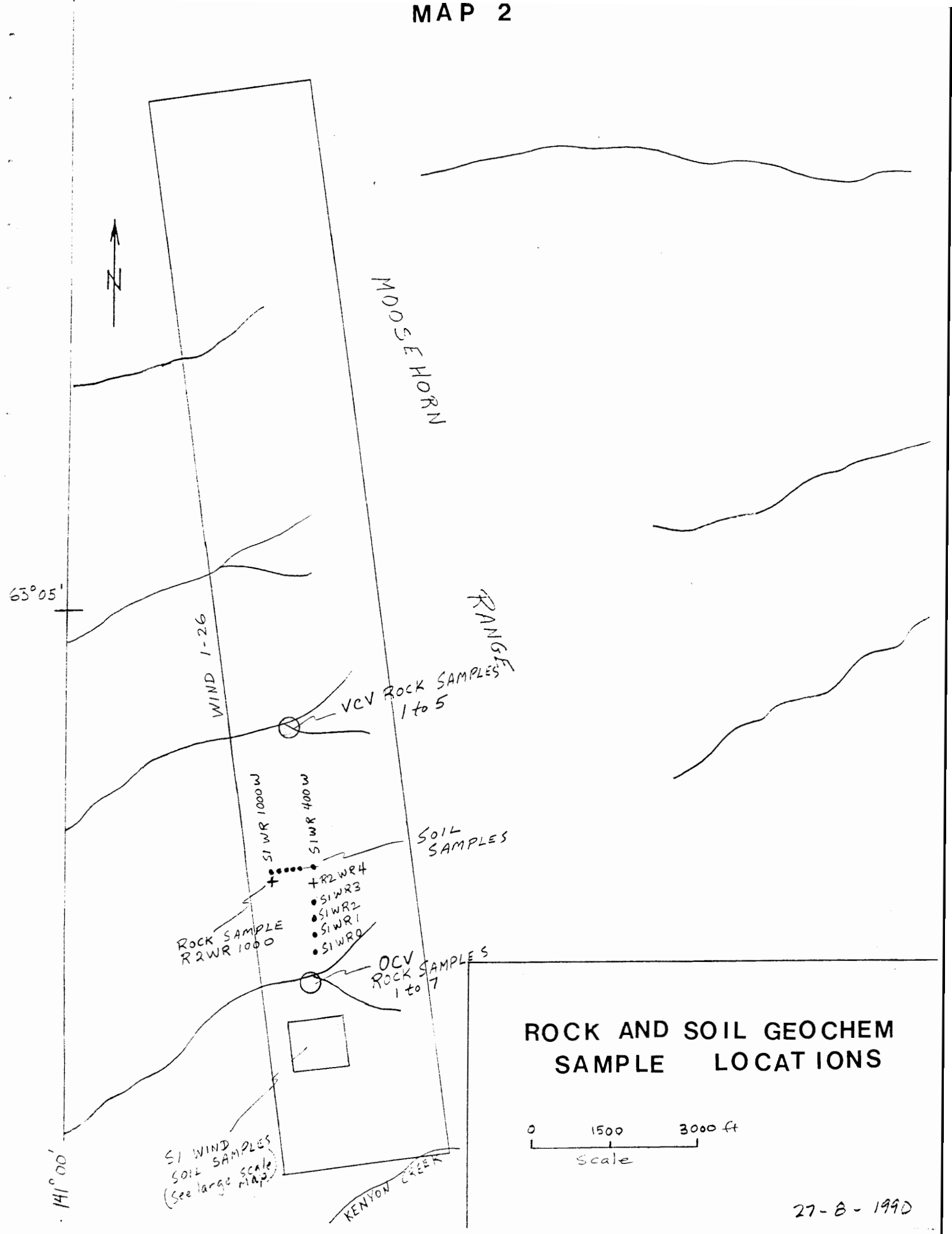
SAMPLE NUMBER	ELEMENT UNITS	Au 10g PPB
S1 WIND 800S 450W		8
S1 WIND 800S 400W		18
S1 WIND 800S 200W		8
S1 WIND 800S 0W		9
R2 FT-1		166
R2 OCV-1		66
R2 OCV-2		104
R2 OCV-3		45
R2 OCV-4		106
R2 OCV-5		53
R2 OCV-6		53
R2 OCV-7		54
R2 T-1EAST		9
R2 VCV-1		28
R2 VCV-2		220
R2 VCV-3		282
R2 VCV-4		53
R2 VCV-5		45
R2 WEST RECON 4		43
R2 WEST RECON 1000		16

LIST OF MAPS


Herschel I.
68°
Porcupine R.
N.W.T.
ARCTIC CIRCLE
66°
Peel R.
Bonnet Plume R.
SCALE 1:5,000,000
0 77 144
MILES
ALASKA
YUKON
Dawson
64°
Stewart R.
Mayo
White R.
Yukon R.
property
Beaver Ck.
62°
Pelly R.
Faro
Ross R.
Kluane Lake
Haines Jct.
WHITEHORSE
Liard R.
Teslin
Watson Lake
140°
B.C.
136°
132°
128°
B.C.

MAP 1

MAP 2



ROCK AND SOIL GEOCHEM SAMPLE LOCATIONS

0 1500 3000 ft

Scale

27-8-1990

map 3

⊕ CLAIM POST (WIND 3 & 4 5 & 6)

0S 1000W
0S 950W
0S 900W
0S 850W
0S 800W
0S 750W
0S 700W
0S 600W
0S 550W
0S 500W
0S 450W
0S 400W
0S 200W
0S 0W

400S 1000W
400S 950W
400S 900W
400S 800W
400S 750W
400S 700W
400S 650W
400S 600W
400S 550W
400S 500W
400S 450W
400S 400W
400S 200W
400S 0W

800S 1000W
800S 950W
800S 900W
800S 850W
800S 800W
800S 750W
800S 700W
800S 650W
800S 600W
800S 550W
800S 500W
800S 450W
800S 400W
800S 200W
800S 0W

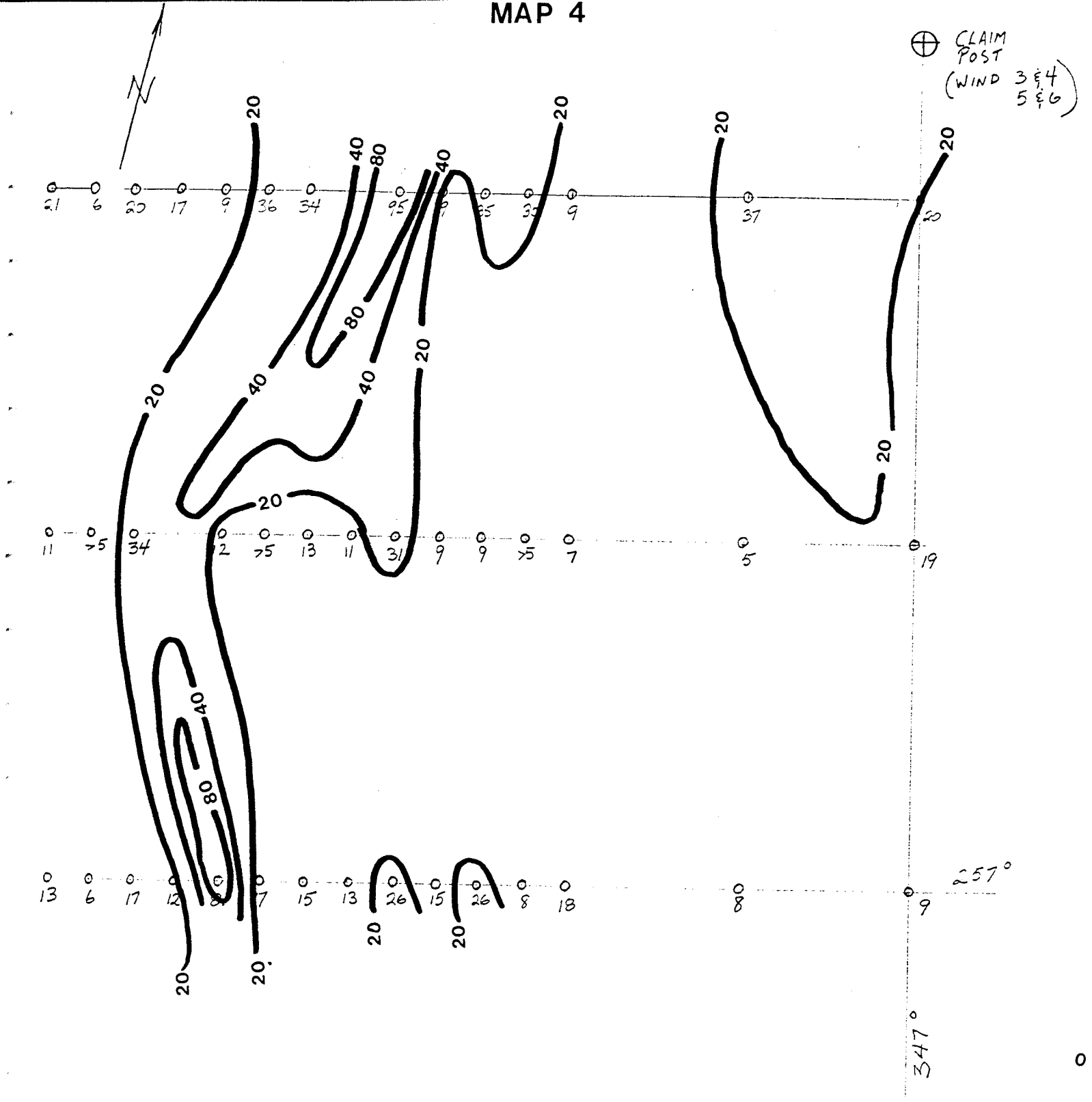
347°
257°

SOIL SAMPLE GRID

0 — 200 ft
Scale

27-8-1990

MAP 4



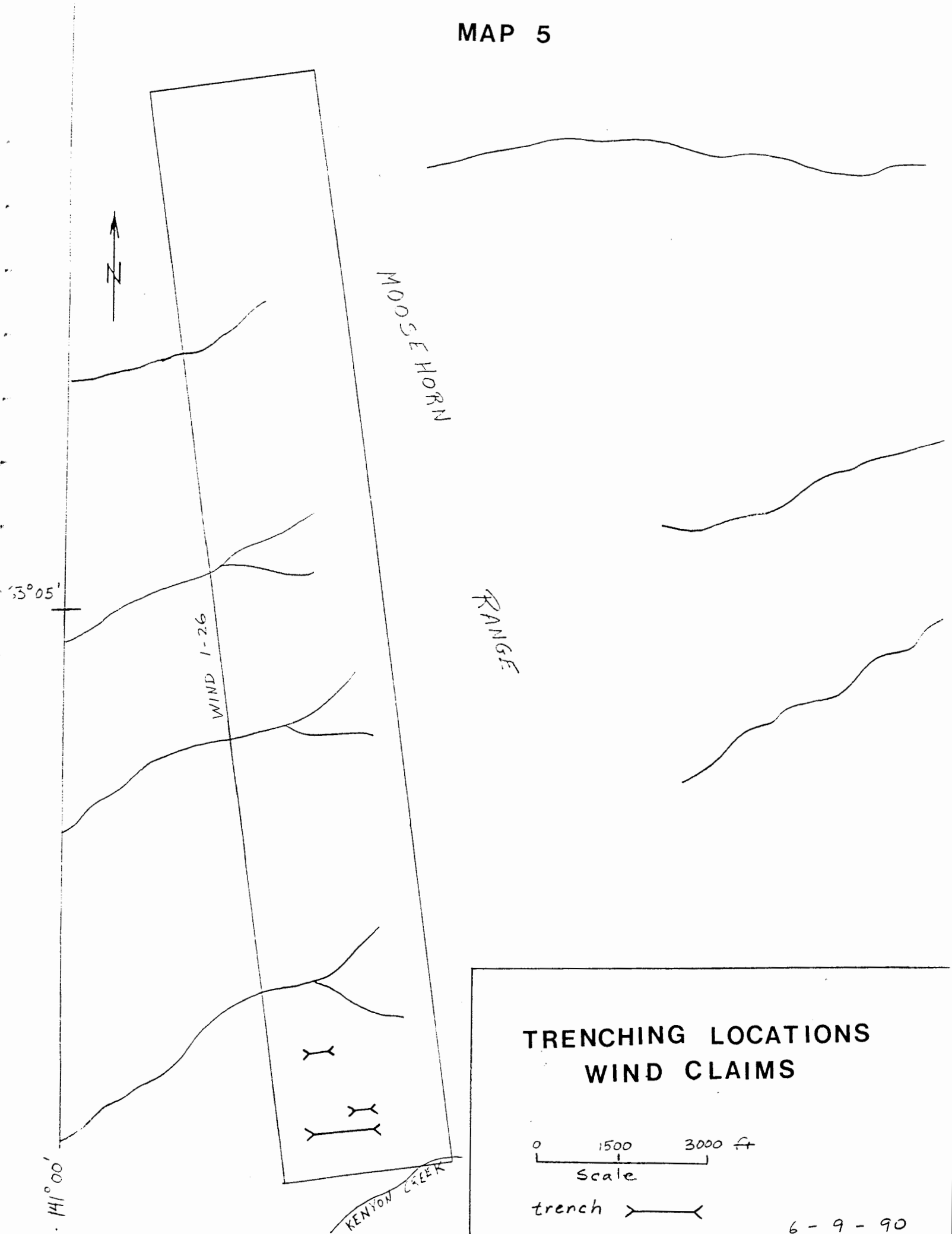
WIND GRID

AU in Soils (ppb)

0 100 200 feet

Scale

MAP 5



TRENCHING LOCATIONS
WIND CLAIMS

0 1500 3000 ft

Scale

trench

6 - 9 - 90

MAP 6

A Quartz vein in trench
assay: 4.9 oz/ton Au
over 10 inches

B Quartz vein in placer pit,
assay: 1.62 oz/ton Au
over 14 inches

C Quartz boulders,
no assay

D Quartz boulders,
assay: 106 ppb Au

E Quartz boulders
assay: 282 ppb Au

0 1 mile
Approx. scale


AS73837

- ~~int of chemistry name & tag #~~

100 × $650 = $650

- map showing claim name, tag # and ~~relation to~~ adjacent claims.

No geology map
- structural data
- location of mineralization
- trenches
- outcrop locations

Geochemistry
- what analytical method was used?
- no receipt
-

43
31
74

Glenn

-> Glen Hartley -

DENNIS

Glen Hartley

471-7695

—

Trenches -

- location

Accurate sketch showing location of trenches relative to local topo and

-

Mr. Denis Oullette

Northern Affairs Program

200 Range Road

Whitehorse Y1A 2V1

April 9,1991

RE: WIND CLAIMS 1-26 NTS 115 N 2

Dear Sir:

Enclosed is the additional information as requested.

1. A copy of the claim map
2. Geology of the area.
3. Geochemical analysis data.
4. Trench locations

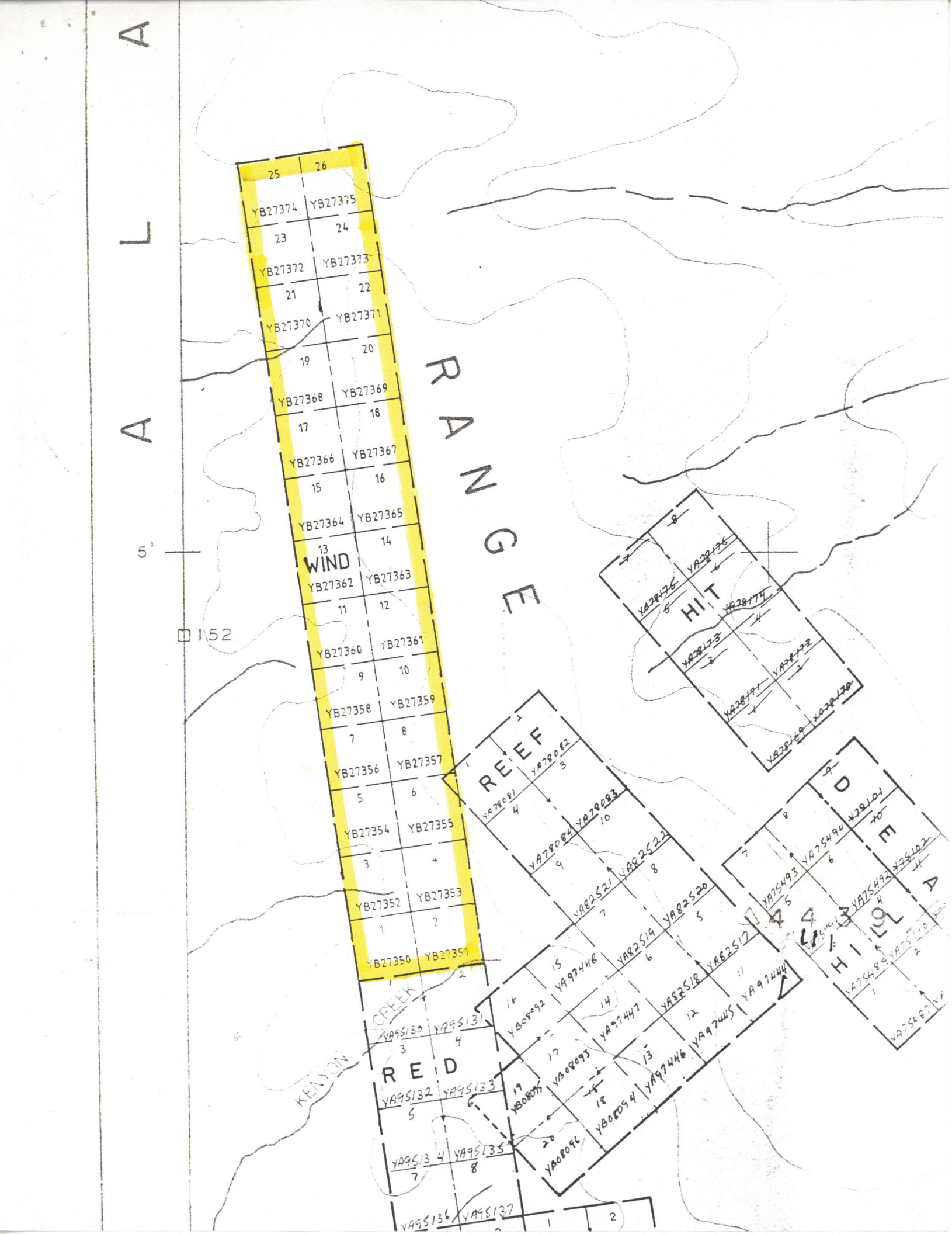
Trench 1 is approximatly 50x12x4 ft . Trench 2 is approximatly 130x12x5 ft. Both trenches are in difficult terrain, neither trench is deep enough to produce a mappable exposure. Trench 2 will be deepened this year.

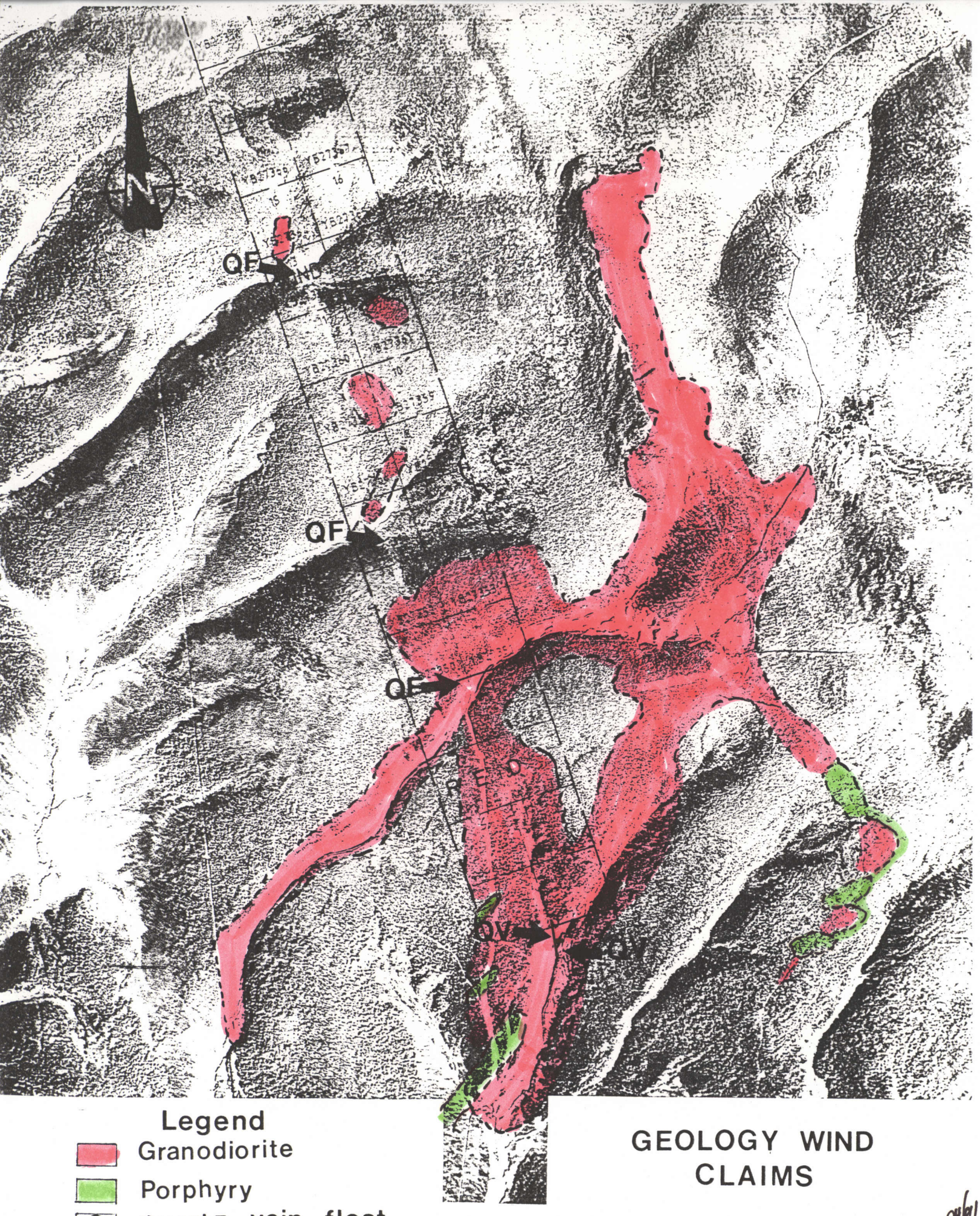
Yours truly

Glenn Hartley P.Geol.

7302 118 a street

Edmonton, T6G 1V2


A L A
RANGE
5'
152
WIND
YB27374
YB27375
YB27372
YB27373
YB27370
YB27371
YB27368
YB27369
YB27366
YB27367
YB27364
YB27365
YB27362
YB27363
YB27360
YB27361
YB27358
YB27359
YB27356
YB27357
YB27354
YB27355
YB27352
YB27353
YB27350
YB27351
HIT
REEF
RED
KENYON
CREEK
HILL


N
QF
QF
QF
QV
QV
RED
Legend
Granodiorite
Porphyry
Q Quartz vein, float
GEOLOGY WIND CLAIMS
0
1500
6000
ft
04/91

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V90-36139.0 (COMPLETE)

REFERENCE INFO:

CLIENT: MR. GLEN ALMBERG
PROJECT: NONE GIVEN

SUBMITTED BY: UNKNOWN
DATE PRINTED: 13-JUL-90

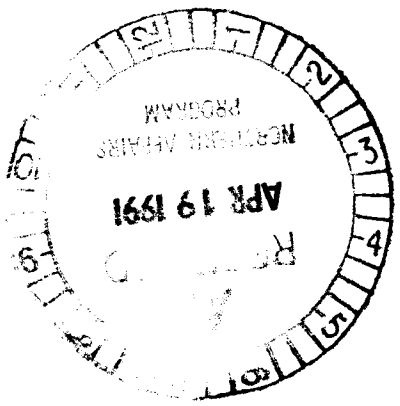
ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 10g Gold - Fire Assay	99	5 PPB	Fire-Assay	Fire Assay AA

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
S	SOILS	84	1	-80	84	DRY, SIEVE -80	84
R	ROCK OR BED ROCK	16	2	-150	16	CRUSH,PULVERIZE -150	16

REPORT COPIES TO: 3516 - 87th ST.
MR. GLENN HARTLEY

INVOICE TO: 3516 - 87th ST.
MR. GLENN HARTLEY

TRENCH LOCATIONS


APR 19 1991