

GEOLOGICAL PROSPECTING REPORT

ON
SHEAR 1-7 CLAIMS

06/02

49°59'30"N; 119°34'10"W
NTS: 82E/13E; 82L/4E
BEAR CREEK, 13 Km NNW of Kelowna
Vernon Mining Div., British Columbia

by

N.C. Lenard, P. Geol, P. Eng.
Consulting Geologist, Westbank

Field Work Done: Oct. 9, 12, 1985

Owner: N.C. Lenard

Report Date: May 26th, 1986.

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

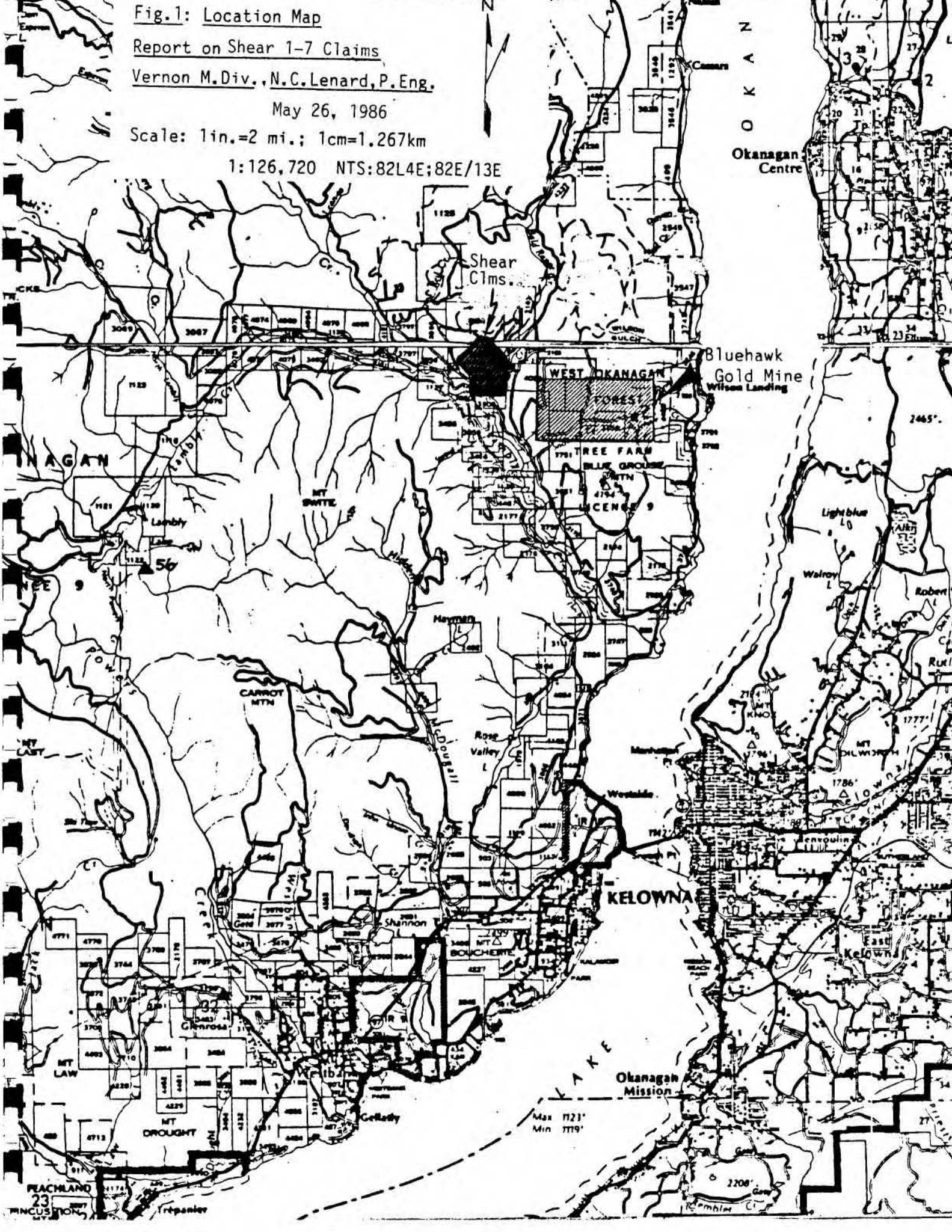
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Fig.1: Location Map
Report on Shear 1-7 Claims
Vernon M.Div., N.C.Lenard, P.Eng.
May 26, 1986

Scale: 1in.=2 mi.; 1cm=1.267km
1:126,720 NTS:82L4E;82E/13E



GEOLOGICAL REPORT ON SHEAR 1-7 CLAIMS

Vernon Min. Div., British Columbia

INTRODUCTION:

This report covers reconnaissance economic geology of a portion of the newly staked Shear 1-7 claims, which were located on a quartz vein exposure on the creek-level west slope road of Bald Range Creek, a north tributary of Bear (Lambly) Creek on the west side of Okanagan Lake. The claims are about 13 Km northwest of Kelowna, and about 3 Km west of the old Bluehawk gold mine on Bluegrouse Mountain.

Evaluation is based on data gathered in the field on October 9 and 12, 1985, and mapping was done by belt chain and compass tied to roads and topography.

PURPOSE:

The aim of this preliminary geological exploration was to determine the scope, trend, economic mineralization, and structural controls of a well-developed quartz stockwork vein in brecciated andesite, poorly exposed in the creek roadcut. Strong pyrite and sparse galena occur in the quartz, and wallrocks are very pyritic.

LOCATION & ACCESS:

The property is easily accessed by auto, and is about 5 Km west of Okanagan Lake via Crown Forest's Bear Lake Main logging road. Elevations range from about 750m (2,460 ft.) at Bald Range Creek to 1,000m (3,280 ft.). It is snow-free for about 7-8 months a year. The Bear Lake road is reached from the Westside road turnoff, about one mile west of the Kelowna Bridge. Fair logging roads span the property.

PROPERTY:

The property consists of seven 2-post claims, located as follows:

- (a) Shear 1-3 were staked to cover the quartz showing, which appeared to be on open ground east of the Blue 2-5 claims from the claim sheet. But, field evidence later revealed that the showing was covered by the east side of Blue claims.
- (b) When the Blue claims lapsed in late August, 1985, Shear 4-7 claims were staked to cover the lapsed ground.

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Tag No.</u>	<u>Record Date</u>	<u>Owner</u>
Shear 1	1	1959	528734M	June 4, 1985	N.C.Lenard
2	1	1960	528735M	June 4, 1985	N.C.Lenard
3	1	1961	528736M	June 4, 1985	N.C.Lenard
4	1	1998	528738M	Sept.13,1985	N.C.Lenard
5	1	1999	528739M	Sept.13,1985	N.C.Lenard
6	1	2000	528740M	Sept.13,1985	N.C.Lenard
7	1	2001	528741M	Sept.13,1985	N.C.Lenard

WORK HISTORY:

The only prior work on this site known to the writer is geophysical-geochemical exploration for uranium on the old Active 12 claim. No encouraging results were recorded in that work.

One very old prospect trench in valley fill was found by the writer on the east side of Bald Range Creek on the Shear 1 and 2 claim line (Fig.2). Its significance is still obscure.

GENERAL GEOLOGY:

The property is on the west border of the Shuswap metamorphic terrane, a broad region of old sedimentary belts and granitic plutons.

The property is underlain by andesites, cherts, marbles and other metasediments of the Permain Cache Creek assemblage. The Vernon granitic pluton lies north and east of the claims, but small intrusives from it could underlie the eastern margins under blanketing glacial drift.

Gold and silver values are locally associated with satellite plugs and the intrusive front of the Jura-Cretaceous pluton. The nearby Bluehawk mine has free gold in shoots of dislocated quartz veins in a basic diorite plug, with spotty values to one ounce or more of gold and 5-10 ounces silver per ton in grab samples: an old 5-ton shipment to Trail graded about 0.95 ounces gold/ton. Mineralization there consists of pyrite, sparse galena and chalcopyrite, and spotty, common bismuth tellurides. Wallrock alteration is generally albitic, and strong sericitation accompanies the high grade gold occurrence in the brecciated quartz shoot described above.

LOCAL GEOLOGY:

Preliminary work centered on the quartz stockwork in the roadcut and mapping sparse outcrops in the steep valley walls and along roadcuts.

The north dipping quartz stockwork strikes about 023° apparently, but its true attitude is open to interpretation. Fig. 3 sketch map of the north elevation of the structure, could represent a 1.5m to 2m-wide quartz vein flexed against an east-bounding fault plane in the lavas.

A possible continuation of this inferred fault was found in andesite outcrop on the south side of the creek at sample site 5 (Fig.2), with no sign of quartz. No evidence of such structure was found uphill on the north side, which has very few outcrops. However, the draw immediately west of the showing may mark a north-trending fault structure that swings northwest along the southwest edge of a

prominent limestone bluff along the upper road. This two-pronged inferred fault trends northwesterly from a 90° break in the creek drainage pattern from north-south to east-west for about $\frac{1}{4}$ mile. The intersections of such linears may structurally favor mineral deposition, and be a key to the controls of the subject prospective stockwork.

WORK RESULTS & ANALYSIS:

Bulldozer stripping of the road-edge quartz stockwork veining gave little data on the trend or scope of the structure except for a possible north dip, easterly strike, and abutting a normal fault on the east side. Some hydrothermal alteration, possible albite, marks the west border of the quartz body. Andesite wall rocks are well pyritized. As the drift-blanketed adjacent valley slopes are too steep for dozer stripping, geochemical and geophysical tools may be needed to outline trend of the controlling structure.

Rock geochemical analyses were done for gold and silver on three pyritic quartz grab samples from the middle and both edges of the stockwork. Results, in the appendix, show low gold enrichment on both edges along with about 0.5 oz/ton silver on the east edge of the quartz structure.

Corresponding analyses of A and B soil horizons overlying the stockwork gave no anomalous gold or silver values.

SUMMARY & CONCLUSIONS:

Although only low order precious metal values were obtained from three grab samples of the quartz stockwork showing, and none from overlying soils, the size and style of the structure, along with strong pyritization and spotty galena mineralization warrant exploration of its trend for possible ore shoots with economic grades of gold and silver.

Easy access, abundant adjacent water and power, and low altitude favor modest exploration and development costs; and the

stockwork showing in a structurally anomalous setting may lead to an exploitable precious metal deposit of viable underground tonnage readily mined by adits. It, therefore, warrants further exploration for extent and mineralization.

RECOMMENDATIONS:

Geochemical and geophysical surveys are in order for the creek area stockwork, and ground prospecting of all draws in the locale for quartz or other significant float and outcrops for fault controlled ore structures.

Proposed exploration is as follows:

1. Do ground magnetometer or VLF-EM reconnaissance traverses over the stockwork structure and across all related draws and ridges on both sides of the creek valley to trace the stockwork vein and to find other such signatures for possible drill targets.
2. Intensively prospect the NW-SE draw system as well as the 90° bends of Bald Range Creek for hydrothermal alteration, quartz, and gossans and map same.
3. Drill one or more shallow vertical diamond drill holes through the stockwork to determine its form and to get fresh core for assays.
4. Sample conifers for biogeochemical gold and silver values. Soil sample B and C horizons over any anomalous geophysical anomalies that may be generated and analyze for gold.

Plan further staged exploration, given positive results from this proposed program.

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-CERTIFICATION-

I, Neall Curtis Lenard, of the settlement of Westbank in the Province of British Columbia do hereby certify:

1. that I am a consulting geologist with an office mailing address of Box 863, Westbank, British Columbia, V0H 2A0,
2. that I graduated from the University of British Columbia with a Bachelor of Arts Degree in 1949 (Honours Geology),
3. that I have practised my profession continuously for thirty-six years,
4. that I am the sole owner of the subject Shear 1-7 Claims,
5. that the statements made in this report are based on personal examination of the claim from October 9th and 12th, 1985, and, on a study of published and unpublished reports on the property area,
6. that I am a member of the Associations of Professional Engineers of British Columbia and Alberta,
7. that no legal survey has been conducted over the subject mining properties and, therefore, in accordance with the mining laws of the appropriate jurisdiction in which such properties are situate, the existence of and the area of such properties could be in doubt.

DATED AT: The Settlement of Westbank, in the Province of British Columbia this twenty-sixth day of May, 1986.

N. C. Lenard, P. Eng.

Neall Curtis Lenard, P. Eng., P. Geol.



Ex. Date Dec. 31, 1986

-EXPENDITURES-

PERSONNEL:

N.C.Lenard, P.Geol., October 9, 12, 1985

1 net day @ \$400 \$400.00

TRANSPORTATION:

4WD: 2 days @ \$35 70.00

Gas 12.00

D6 BULLDOZER, TRAILER: Stripping, roadwork 70.00

GEOCHEMISTRY: Rock: 3 @ \$13.75 41.25

Soils: 6 @ \$ 8.60 51.60

REPORT PREPARATION:

Drafting: 4 hr. @ \$15 60.00

N.C.Lenard, P.Geol.: 1/2 day @ \$400 200.00

Typing, reproduction, binding 65.00

TOTAL DISBURSEMENTS: \$969.85

I certify that the above statement is an accurate representation of expenditures made for the geological survey of Shear 1-7 Claims conducted on October 9 & 12, 1985.

N. C. Lenard
N.C.LENARD, P.GEOL., P.ENG.



Ex. Date Dec. 31, 1986

-REFERENCES-

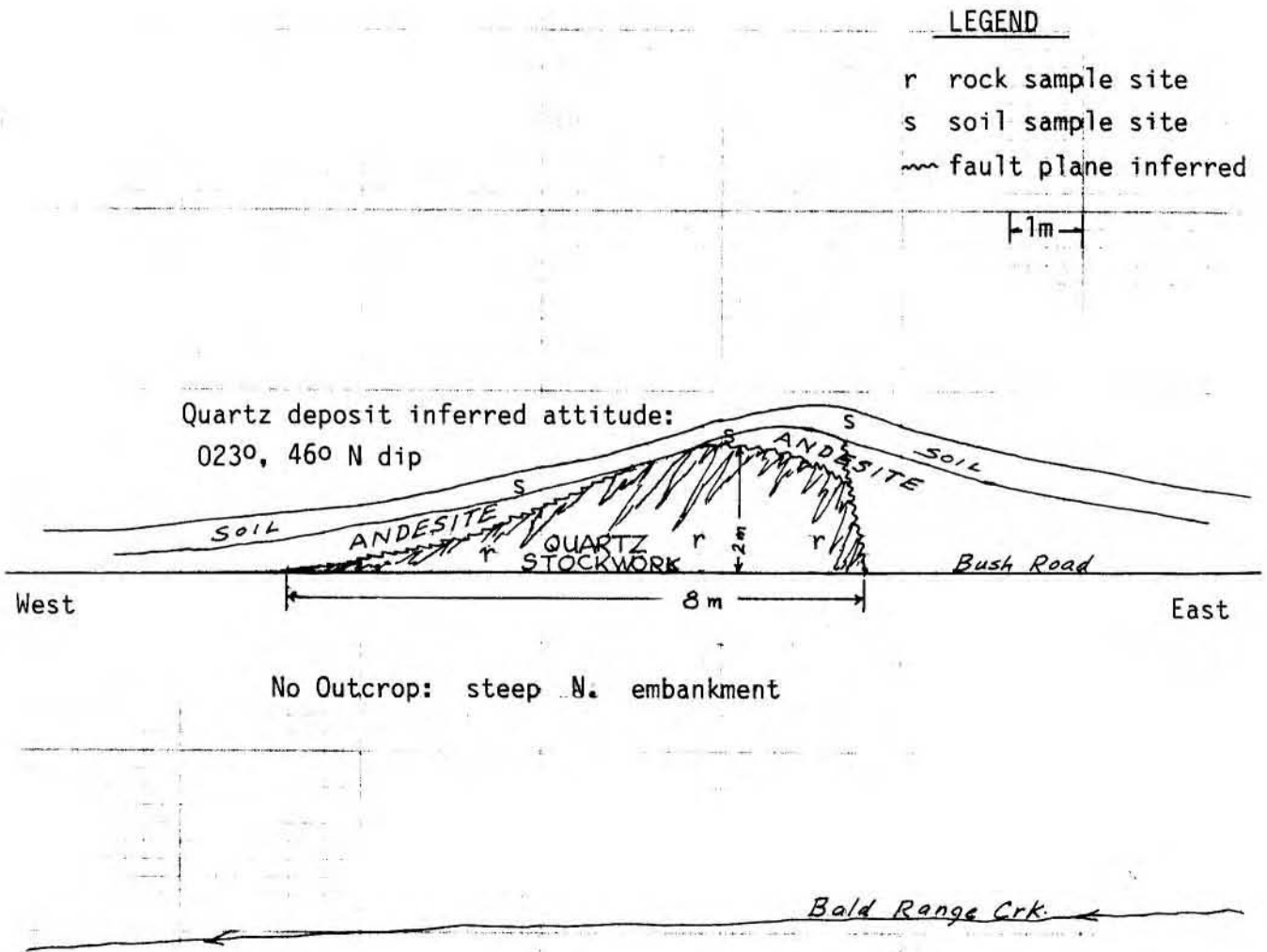
CHURCH, B.N., 1980: B.C. Min. E.M.P. Res., Preliminary Map 39
Geology of the Kelowna Tertiary Outlier
(West Half).

LITTLE, H.W., 1958, 1959: G.S. Can. Paper 67-42: Geology of
Kettle River (West Half), B.C.

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Appendix 1

Fig. 3: Report on the Shear 1-7 Claims N.C. Lenard, P. Geol.
North Elevation of Quartz Stockwork May 26, 1986



Ex. Date Dec. 31, 1986

GEOCHEMICAL LAB REPORT

Mr. Neall Lenard
Box 863,
Westbank, B.C.
VOH 2A0

DATE October 30, 1985.
ANALYST _____
FILE NO. G 1408

AL NO.	IDENTIFICATION	ppb Au	ppm Ag				
1	1	5	1.3	Shear 5	W. edge stockwork	(rock)	
2	2	L5	0.7	" 5	middle "	"	
3	3	10	18.5	" 5	E. edge "	"	
4	00-A	L5	-	" 5	A zone soil		
5	A1-A	L5	-				
6	A2-A	L5	-				
7	1E-A	L5	-	Shear 5	A soil:		
8	2E-A	L5	-	" 5	A soil		
9	E2-S	L5	-		<i>Bond 1 B zone pits</i>		
10	F1S-A	L5	-				
11	F2S-A	L5	-				
12	S 2	L5	-		<i>Bond 1 A plug #2 ^{strip} / _{1cm}</i>		
13	00 B	L5	-	Shear 5	B soil		
14	A ₂ "B" Hor.	L5	-		<i>Bond 1 B zone pits</i>		
15	A ₁ C Soil	L5	-				
16	1E-B	L5	-	Shear 5	B soil		
17	2E-B	L5	-	" 5	B soil		
18	E25B (E25:B)	L5	-		<i>Bond 1 B zone pits</i>		
19	F1S B	L5	-				
20	F2S B	L5	-				
21	S 7	L5	-		<i>Bond 1: A plug strip I</i>		

L means "less than"

Sample preparation: Rock - Crush grind to -100 mesh

Soil - Screen to -80 mesh

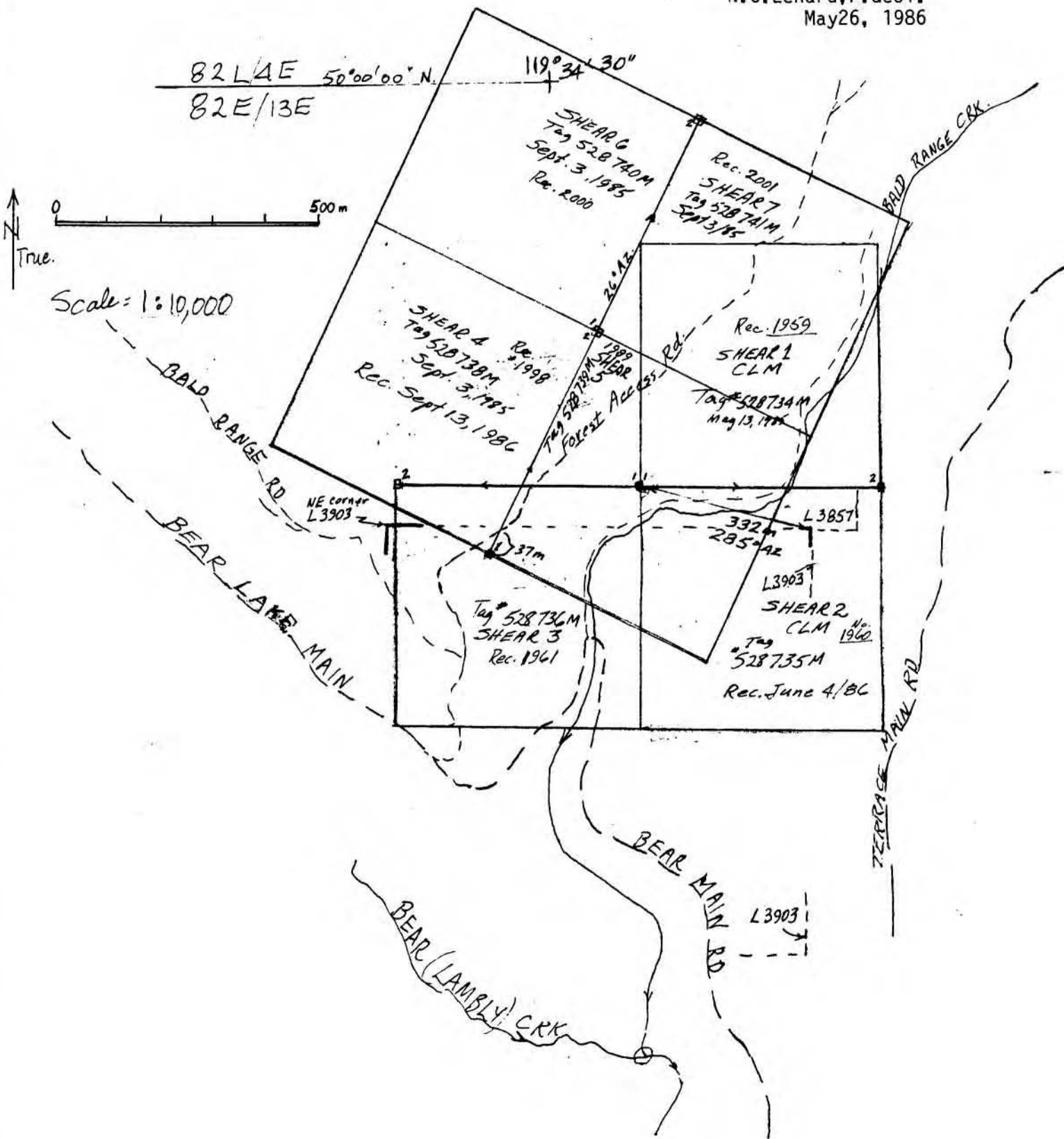
Au Method: Fire assay, Atomic absorption

Ag Method: Hot acid extraction, atomic absorption

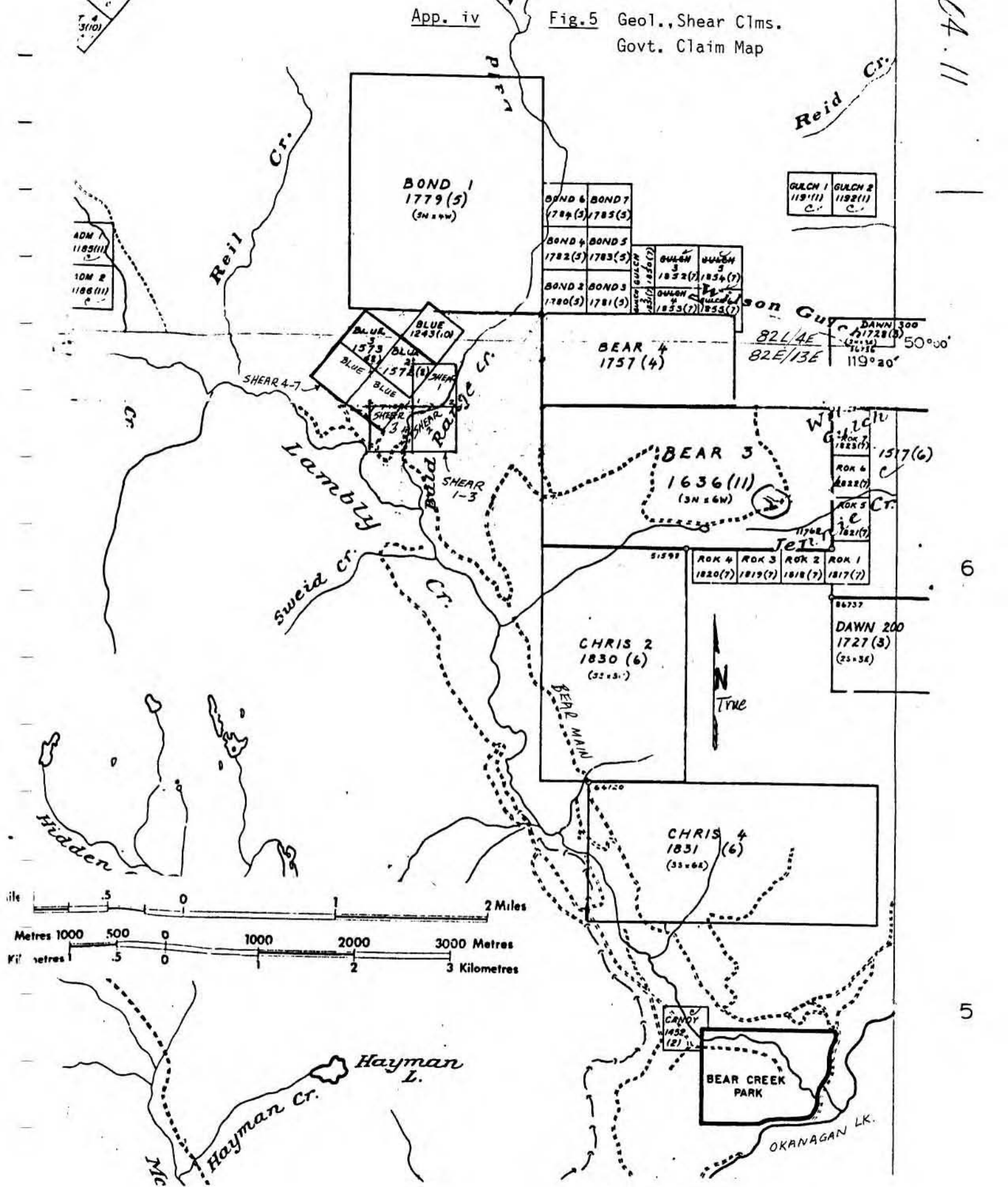
Fig.4

STAKING SKETCH MAP

Geol., Shear Clms.
N.C. Lenard, P. Geol.
May 26, 1986



4. 11



6

5

50° 00' 00"

82 L/4E
82 E/13E

79° 54' 30"

L3858

L2172

L3857

Shear 4

Shear 1

L3860

L3903

L4059

Shear 3

Shear 2 Clm.

L3903

0 100m
1:3333.3

N Az.

49° 59' 15"

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,784



Fig. 2: PROPERTY, GEOLOGY, TOPOGRAPHY SHEAR 1-7 CLMS.
Geol. Prospecting Report by N.C. Lenard, P. Geol.
May 26, 1986
Vernon Min. Div.

- LEGEND -
- V Permian andesite volcanic outcrop
 - L Permian limestone outcrop
 - Quartz vein stockwork
 - Fault observed
 - Fault inferred
 - x5 rock outcrop, sample number
 - ▼ Geochemical sample site
 - || Trench, strip
 - ▣ Claim post

