GEOLDGIL AL

ASSESSMENT REPORT
HILLSIDE GOLD PROPERTY
GIVEOUT CREEK AREA
NELSON, B.C.
NELSON M.D.
82 F/6 W

CO-ORDINATES:

49° 27'12" North)Approximate centre 117° 17'30" West)of Claims

OWNER OF CLAIMS: G.B. HARDWICKE - GRAND FORKS, B.C.

R. PALMER - NELSON, B.C.

OPERATOR:

NEW TYEE RESOURCES LTD. 508 - 475 Howe Street Vancouver, B.C.

AUTHOR:

HAROLD M. JONES, P.Eng.

GEOLOGICAL BRANCH ASSESSMENT REPORT

11,027

DATE:

January 27th, 1983

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SUMMARY

The Hillside property, optioned by New Tyee Resources Ltd., is located near Giveout Creek 4km south of Nelson. It was examined on behalf of New Tyee Resources from September 14-18 and September 30 - October 8, 1982.

The property has been actively prospected and mined from 1897 to 1949. Most of the work was done on the California and Exchequer Crown grants. These claims are transversed by the California Vein System which was developed by three levels, several raises and stopes. Approximately 1700 tons of shipping grade ore was produced which averaged 1.4 oz/ton gold and 2.5 oz/ton silver.

Present work on the property by New Tyee Resources Ltd. included surveying of all main surface workings, sampling of surface vein exposures and dumps, and prospecting for unreported workings.

Surveying of the California vein surface workings found that it is poorly exposed by scattered pits, stopes, raises, adits, etc. for at least 600m. Assay results indicate that gold occurs in distinct ore shoots, the value of which could be expected to grade between 0.2 - 1.0 oz/ton gold.

Work by others infer 39,500 tons of possible ore grading 0.85 oz/ton gold lying above the third level of the California mine workings.

Three mineralized areas are known which warrant further exploration. These include the California Vein System, the Union Vein and the Deadwood "Vein". The latter "vein" is actually a zone of well pyritized tuffs at least 30m wide. It is reported to contain low gold values but this was not verified by recent sampling.

An exploration program is recommended which includes underground exploration and drilling, surface drilling and surface prospecting and sampling of the above mentioned three mineralized zones.

INTRODUCTION

The Hillside Gold property, located 4km due south from Nelson's downtown city centre, was examined during the summer of 1982 by L.S. Trenholme, P.Eng. on behalf of New Tyee Resources Ltd. Following his initial examinations and review of all available data on the property, he recommended that New Tyee Resources commence proceedings to option the claims. From September 14-18, 1982 and September 30 to October 8, 1982, L.S. Trenholme, P.Eng. and H.M. Jones, P.Eng., assisted by a part-time survey helper, explored the property on behalf of New Tyee Resources Ltd. During these periods numerous old surface workings were located, examined and sampled. Surveys were run to tie in all workings.

This report describes the field work conducted and the results obtained.

Location and Access

The Hillside property is located 4km due south of Nelson's downtown business district on the lower north slopes of Toad Mountain. It lies immediately east of Giveout Creek at the head of the old Nelson ski hill, now a distinctive overgrown clearing on the otherwise well forested slope.

The property is very accessible by two reasonably good but steep 4 wheel drive roads. One road originates from the base of the old ski hill and switchbacks its way up to the claims; the other originates from B.C. Highway 6 6km south of Nelson and by a series of switchbacks winds its way northwesterly toward Giveout Creek, passing along the south boundary of Hillside and California Crown grants. (see figure 6).

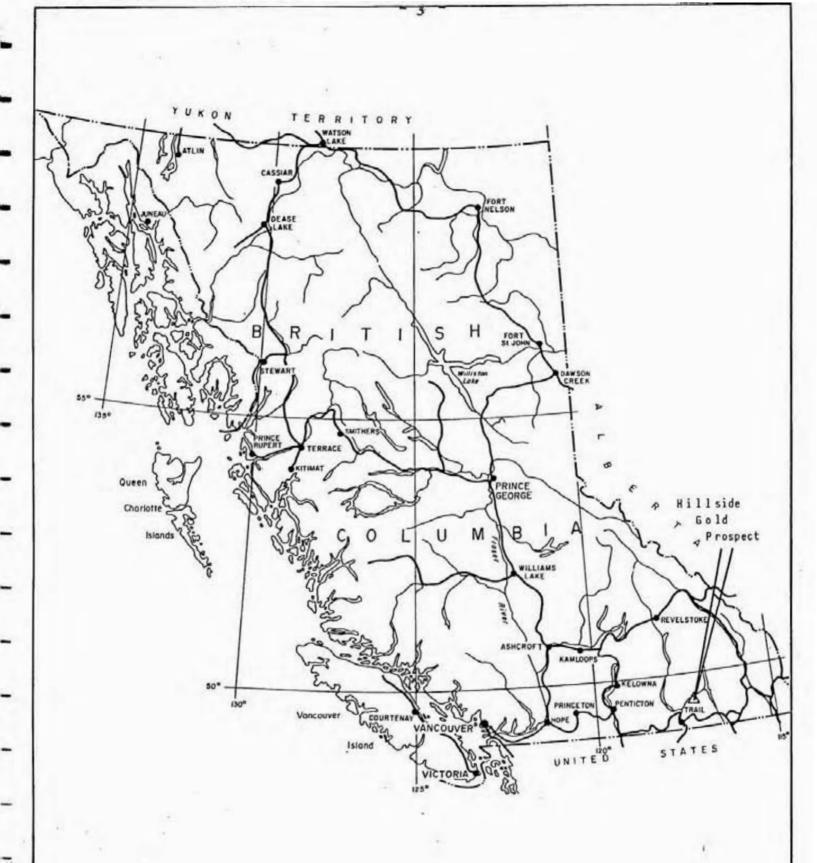
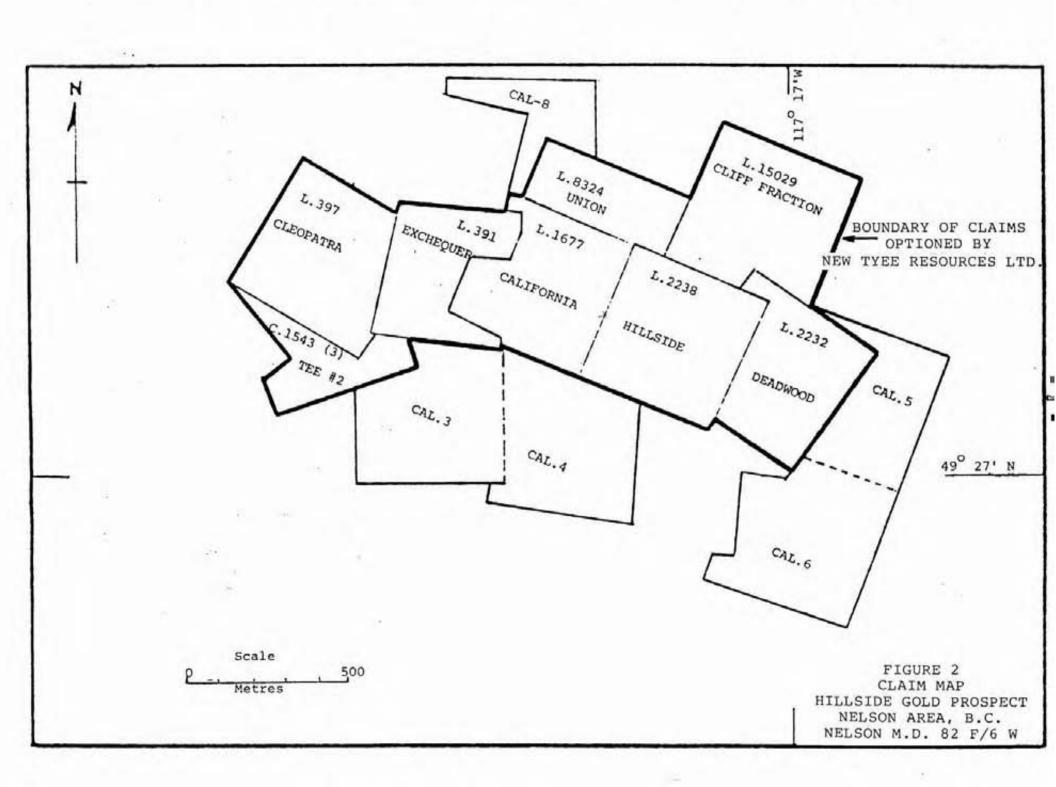


FIGURE 1
LOCATION MAP
HILLSIDE GOLD PROSPECT
NELSON, B.C.

kliemet-es



Topography and Vegetation

Most of the area underlain by the claims is characterized by steep, heavily wooded slopes. This is especially true of the western edge of the property where the slopes into Giveout Creek are very steep to locally cliff-forming. Slopes moderate somewhat to the south on ground covered by Cal 3 and 4 claims.

Vegetation consists of fir, pine and cedar with relatively little undergrowth. Most of the property was selectively logged many years ago, the result being that now an appreciable amount of commercial timber is standing on the claims.

Property

The Hillside property consists of 13 contiguous claims. They include six Crown grants, one reverted Crown grant and six two-post claims. They are:

Crown Grants	Lo	t No.	Record No.	Expiry Date	Owner
Exchequer	L.	391	-	July 1983	
California	L.	1677	-		
Deadwood	L.	2232	-		
Hillside	L.	2238	in the		
Union	L.	8324	-	.0	Jointly by
Cliff Fraction	L.	15029	-	"	G.B. Hardwicke and
Reverted Crown	Gran	nt			R. Palmer
Cleopatra	L.	387	970	March 28,1983	13
Two-Post Claims	3				
Two-Post Claims	3		1543	March 12,1983	
Total Carlos	3		1543 2789	March 12,1983 Sept. 28,1983	
Tee 2				아이지 아이를 하지 않아 되어 아이들에 하는 것이 되었다면 하다면 하지만 하지만 되었다.	
Tee 2 Cal 3	3		2789	아이지 아이를 하지 않아 되어 아이들에 하는 것이 되었다면 하다면 하지만 하지만 되었다.	
Tee 2 Cal 3 Cal 4	3		2789 2790	아이지 아이를 하지 않아 되어 아이들에 하는 것이 되었다면 하다면 하지만 하지만 되었다.	
Tee 2 Cal 3 Cal 4 Cal 5	3		2789 2790 2791	아이지 아이를 하지 않아 되어 아이들에 하는 것이 되었다면 하다면 하지만 하지만 되었다.	L.S.Trenholme
Tee 2 Cal 3 Cal 4 Cal 5 Cal 6	-	joint	2789 2790 2791 2792 2846	Sept. 28,1983	L.S.Trenholme " " H.M. Jones
Tee 2 Cal 3 Cal 4 Cal 5 Cal 6 Cal 8	ned		2789 2790 2791 2792 2846 Ly by Mes	Sept. 28,1983 " Oct. 7,1983 ssrs. Hardwick	H.M. Jones e and Palmer

ferred to Messrs. Hardwicke and Palmer by an unregistered bill-

CONSULTING GEOLOGISTS

of-sale dated Jan 17, 1983 ASSOCIATES INC.

History

The Hillside property includes the California and Exchequer Crown grants which were actively explored and mined from 1897 to 1949. During this period the California Vein System was traced for approximately 600 metres across these claims by numerous surface pits and trenches. This vein system was developed by three levels and several stopes. Total recorded production from these claims was about 1700 tons of shipping ore grading approximately 1.4 oz/ton gold and 2.5 oz/ton silver. Most of the ore appears to have come from the two upper levels.

It was reported (B.C.M.M. 1919) that a 91.5 metre section of good ore was encountered on the lower level between 365m and 457m from the adit portal. It was estimated to average 0.85 oz/ton gold over a width of 1.0 to 1.5m. There is no direct reference to subsequent stoping in the area although some of the ore may have been mined and shipped to the nearby Athabasca Mill.

In 1934, unknown parties left a record of underground sampling which is shown on figure 5 of this report.

In 1941, the Provincial Government carried out a "Gold Mine Leasing Experiment" above No.1 Level and, according to a report by R.J. Maconachie, M.E., shipped 75 tons averaging 2.10 oz/ton gold.

In 1944 the property was purchased by Sheep Creek Gold Mines Ltd. who surveyed the underground workings, leased the property to various parties and subsequently relinquished the property.

Small adits are also present on the Hillside, Deadwood

and Union Crown grants but these are not mentioned in the literature. A small stope was developed on the Union c.g. and a limited tonnage of ore may have been shipped from here (very small dump as compared to size of stope).

In 1982, New Tyee Resources Ltd. optioned the property from the present owners and carried out a preliminary program of surveying, mapping and sampling under the direction of the writer of this report.

GEOLOGY

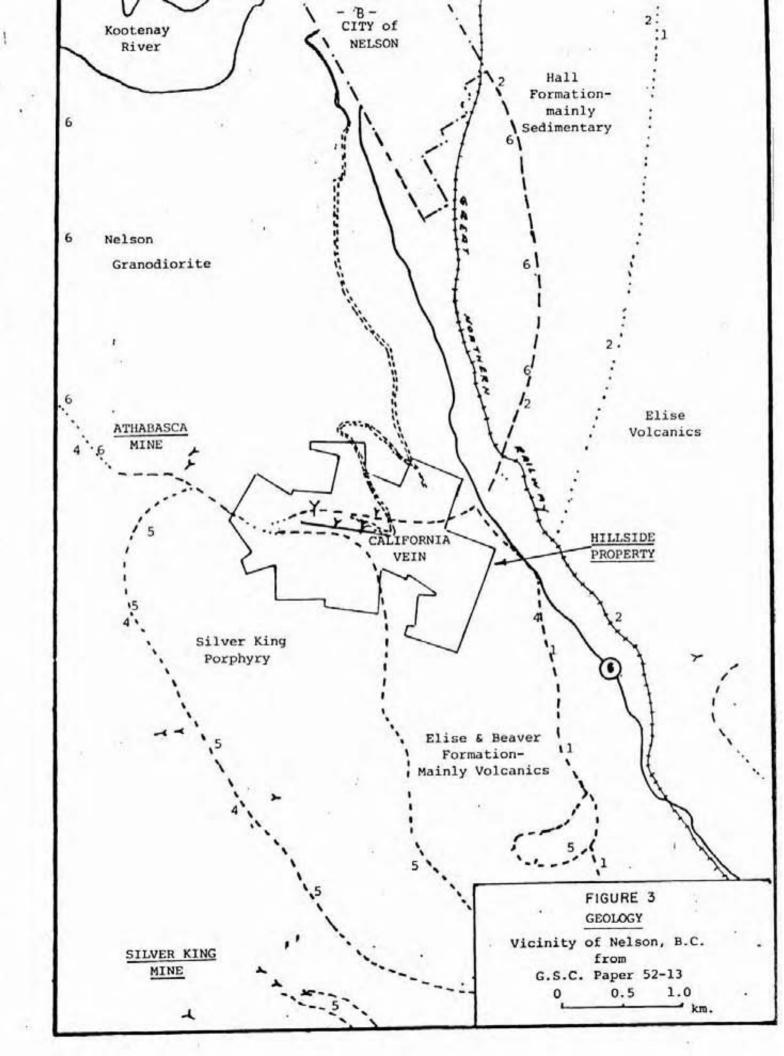
General Geology

The general geology of the Nelson area consists of Mesozoic sedimentary and volcanic rocks of the Ymir and Rossland Formations which are deformed and intruded by the Nelson granites, a pluton covering a large area mostly to the north and west of Nelson.

The greatest part of the Hillside property is underlain by Nelson granite which includes a roof pendant of metavolcanic rocks of the Rossland Formation. This pendant is very narrow, stikes east-west, dips 70° south and consists of andesite and basalt with some associated water lain sediments (tuffs).

Local Geology and Mineralization

Geological observations made while surveying and sampling the surface workings indicate that the contact between the roof pendant of Rossland Fm metavolcanics and the Nelson granites lies near the northern boundary of the Exchequer (L391), California (L1677) and Hillside (L2238) c.gs. and also approximately follows the west boundary of the



Exchequer c.g. Metavolcanics also occur in old workings near the northwest corner of Deadwood (L.2232) c.g. and also near its southern boundary (Deadwood adit) and along the road just south of the adit. Granites and altered granites are poorly exposed along the road to the south of Hillside Crown grant and on Cal 3 & 4 claims. From the above data the metavolcanic roof pendant may be inferred to be approximately 500m wide, trending slightly north of west, and open to the east.

Quartz filled fissure veins occur within the roof pendant. The California Vein System is the most developed. It is located within 50 metres of the northern contact of the roof pendant with Nelson granites. This system has been traced for about 600 metres on the California c.g. and Exchequer c.g. of which about 400 metres has been by underground workings, and to a vertical depth of 130m.

Two principal veins occur within the above shear, which is up to 3m wide and dips 45 -55 south. The footwall vein, commonly less than 50cm wide, is mineralized with pyrite, lesser sphalerite and galena. It also carries values in gold and silver. The hanging wall vein, often wider, is poorly mineralized.

Underground, on Level 3, the footwall vein (?) shows widths of 1.0 to 1.5m.(B.C.M.M. 1919) Unfortunately, due to cave blocking the drift, this could not be verified.

Surface pits and trenches indicates that one or more mineralized veins are present which approximately parallel the California vein. These workings terminate near the western edge of Exchequer c.g. where outcrop is lost due to deepening overburden. Two short adits in this area explore quartz veins. The "Cabin vein" is thought to be the continuation of the California vein (see map 4).

The Union vein, located on the Union c.g. approximately 200m north of the portals of Level 1 and 2, is exposed in two short adits and one small stope. This vein occurs in granodiorite and is interpreted as filling a tension fracture which dips at 10°-15° southeasterly toward the intrusive-volcanic contact. Where exposed in the workings the vein varies from 30-40cm in width and consists of white quartz with coarse, irregular disseminated pyrite and lesser sphalerite mineralization. Locally, the mineralization is finely banded. The contacts are sharp and the wall rocks competent, although some minor vertical fault offsets were noted in the stope.

The Deadwood "vein" is a wide zone of pyritized, calcareous, sericitic, rhyodacitic tuffs containing narrow veinlets and stringers of quartz. These rocks are exposed in the Deadwood adit and in outcrops along the road immediately south of the adit. Outcrops are characterized by heavy limonite stain. Limited sampling (B.C.M.M. 1930) from this zone returned assays equivalent to 0.188 oz/ton gold. (Somewhat similar geology is exposed 4km to the south in a trench on the Kena claims where a 15m section averaged 0.07 oz/ton gold).

On the Hillside claim, a short adit exposes a vein, striking N68E and dipping 40 osoutheast, in sheared, chloritized andesite. The vein varies irregularily from 8-30cm in width and contains several very narrow sulfide bands.

A narrow vein, in a similar geological setting as above, is poorly exposed at the northwest corner of Deadwood crown grant, 30m northwest of No. 2 Creek.

All significant veins and outcrops were sampled.

FIELD WORK

The field program on the Hillside property was conducted from September 14-18 and September 28-October 8, 1982 inclusive. It consisted of reconnaissance surveys to locate all the old workings, sampling of surface workings and transit surveys to accurately tie in all principal workings. An underground examination was also made of Levels 1 and 3, the latter with a mining contractor.

The work was conducted by two geologist, one of whom was not on the property full time, and one survey helper. Personnel worked out of a base in Nelson.

RESULTS

1)Reconnaissance and Instrument Surveys

An instrument survey, using a Wild T-1 theodolite, was run from the portal of Level No. 3 along the Athabaska Mine road to near the old aerial tramway, then up hill to the two adits on the west side of Exchequer c.q. The Union No. 1 and No. 2 adits were tied in at this time. A similar survey was run from Level No. 3 portal to the Exchequer adit, tying in the portals of Level No. 1 and No. 2 at this time. Reconnaissance surveys, using Brunton Compass and "hip chain", were run from Level No. 3 portal to pick up the Hillside adit and the showing in the northwest corner of Deadwood crown grant. This survey was continued westerly then northerly, picking up an iron pin at the Cliff Fr southeast corner and closing on the lower road at Creek No. 2. A similar reconnaissance survey was run from the S.W. corner Deadwood crown grant to the Deadwood adit.

Fig. 6 shows the location of all features tied in by the reconnaissance and instrument surveys.

ASSAYS

			A:	SSAYS	
SAMPLE NO	. TYPE	WIDTH	Au oz/to	on Ag oz/ton	DESCRIPTION
45405	Chip	4.6m	<0.003	0.04	Continuous chip samples along road cut
45406	**	5.0=	0.003	0.02	across Deadwood "Vein"pyritized
45407		5.0s	< 0.003	0.04	rhyodacite tuff, heavy FeOx samples
45408	u	5.0m	< 0.003	0.01	from west to east.
45409		5.0m	<0.003	0.03	CALLAND CONTROL SARAR
45410	0	5.0m	<0.003	<0.01	· · · · · · · · · · · · · · · · · · ·
45411	Spec.	-	0.132	0.06	Ore spill (?) on road, west of Call
45412	Chip	20cm	0.336	0.56	Calif.vein-raise, 10cm qtz, 10cm schist.
45413		10cm	0.090	0.25	Calif-stope, 10cm qtz on f.W.of 2m shear.
45414	.01	30cm	0.003	0.07	Calif. vein-stope-H.W. vein
45415		56cm	0.004	0.24	Exchequer-drift-F.W.vein, qtz
45417		25cm	0.010	0.47	Different vein, at portal
45418	**	30cm	<0.003	0.08	"Cabin vein"-F.W. qtz vein
45419		20cm	0.004	0.32	"Cabin vein" H.W. qtz vein
45420	Spec.	-	0.012	3.34	Spill-aerial tramway, qtz-Py in granite
45421	11	-	0.020	0.80	Union No.1 adit-strs with qtz+ZnS in gran
45422	Chip	46cm	0.010	0.03	Calif.Level#2-0+36W-Py+ZnS in qtz.
45423	Spec.	-	0.038	1.44	Calif.Level#3-dump.qtz with Py.POS.ZnS.
45424	Chip	30cm	0.382	6.52	Union#2 adit-portal,qtz,heavy Py, E wall.
49501	Spec.	-	0.238	1.22	Union #1 adit-dump.
49502	11	-	1.090	1.04	Calif.Level#3-stope muck.qtz with Py+ZnS.
49503	30	827	0.003	0.14	Calif.Level#3-stope#301vein 11cm in muck.
49527		-	0.024	0.72	Calif.Level#2 dump-qtz with Py,ZnS
49530	n	-	0.018	0.54	Calif.Level#3 dump-vein material
49531	Chip	38cm	0.004	1.12	Union#2 adit-qtz vein S wall,coarse ZnS, minor Py.
49532	**	32cm	0.078	2.80	Union#2 adit-qtz vein S wall, Coarse Py.
49533		41cm	0.010	2.60	Union#2 adit-qtz vein S wall,bands ZnS+Py
49534	11	51cm	< 0.003	0.10	vein immed. N of Union#2 adit bull qtz.
49535		56cm	<0.003	0.14	vein on road near stn.10,no obvious sulf.
49538	Spec.	-	<0.003	0.12	qtz float,trench near"Cabin vein".
49539		-	0.003	0.42	" ,40m N of above location.
49540	"	2	< 0.003	1.96	No.1 Creek adit-qtz vein 8-30cm with abundant ZnS and Py.
49541	chip	38cm	0.072	1.85	No.2 Creek Showing-qtz vein, narrow bands
19542	n	25cm	0.008	2.05	No.1 Creek adit-qtz with ZnS+PbS
49543		130cm	0.084	10.94	No.2 Creek showing-38cm qtz,91cm rusty wall rock, minor ZnS.
9544		3.05m	0.003	0.01	Deadwood adit-across face. pyritized
9545		5cm	0.110	1.43	Union#2 stope-F.W., heavy Py in qtz
49546	11	36cm	0.003	0.56	Union#2 stope-H.W. of above,minor Py
49547	"	20cm	0.220	2.22	Union#1 adit-qtz with coarse Py 7
9548	"	41cm	0.003	0.08	No.2 Creek-poor vein exposure NW of creek
49549	Spec	=	0.458	1.00	Calif.Level#3-loading pocket,ZnS+Pyin qtz
49550		-	0.212	0.63	" " " ,ZnS+Py in qtz
Deadwood	**	-	0.006	4.46	qtz vein material from dump.

2) Sampling and Assaying

Twenty-eight chip and fifteen speciman samples were collected. They were assayed for gold and silver by Chemex Laboratories Ltd., North Vancouver, B.C. using the standard fire assay method with atomic absorption finish. The location of all samples are shown on Fig. 6.

All samples and their assay results are shown on Table I.

DISCUSSION OF RESULTS

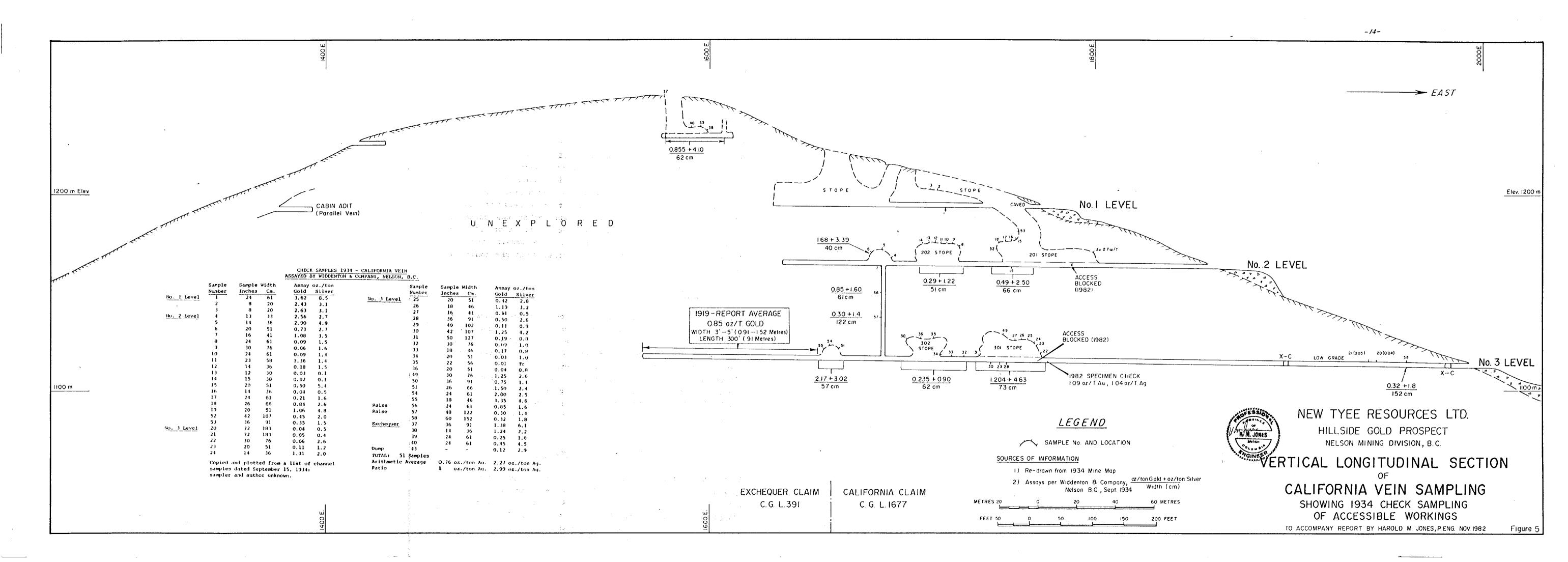
Results from field work and literature research indicate three main areas of interest. They are:

1) California Vein System

Assay results obtained from the recent sampling show a wide range in gold values. This is to be expected since the samples were obtained from barren and mineralized (visual) sections of the vein and from selected ore specimens from the dumps. The assays do confirm that values in the range 0.2-1.0 oz/ton gold can be expected from the ore shoots.

As mentioned under "History", a 91.5m section of vein in Level 3 showing widths of 1.0-1.5m was reported (B.C.M.M. 1919) to average approximately 0.85 oz/ton gold. Assuming a width of 1.2m, a length of 91.5m and a slope height of 120m to the No. 1 level, a total of 39,500 tons is calculated for this section. It is not known at this time what portion of this might be of economic grade.

Also, the opinion has been expressed in the past that most of the first 365 metres of drift on the No. 3 Level was not on the California Vein proper and there is no report of any lateral diamond drilling to test this hypothesis.



At present, only the first 213 metre section of this drift is accessible, and close examination has not revealed any diamond drill holes in the walls.

2) Union Vein

Sampling of the Union stope area by the writer has returned assays up to 0.38 oz/ton gold and 6.52 oz/ton silver across 30cm. This is approximately 170 metres from the granite-volcanic contact and, at this point, is obviously too narrow for economic mining. However, it is postulated that this structure (tension "gash-vein") may attain greater thickness and more metallic content as it approaches the contact. The similarity of vein mineralization to that of the California Vein may be significant. This possibility can be checked by steep diamond drill holes from the existing road.

Deadwood "Vein"

Sampling by the writer, of this zone returned assays of less than 0.003 to 0.003 oz/ton gold and less than 0.01 to 0.04 oz/ton silver. These values are considerably lower than the 0.188 oz/ton gold referred to in the literature. However, the writer knows from personal experience that similar geology on the Kena claims to the south near Gold Creek does contain low values in gold. For this reason, the Deadwood "Vein" area should be explored for the possibility of it containing a large tonnage, low grade gold deposit.

CONCLUSIONS AND RECOMMENDATIONS

It is the writer's opinion that the Hillside property under option to New Tyee Resources Ltd. has an encouraging potential for the development of substantial reserves of direct-shipping gold-silver ore. The company's initial discussions

with the owners of the custom milling facility near Salmo, B.C. have indicated that the "California-type" ore would be amenable to their processing method.

It is therefore recommended:

- that rehabilitation of the No. 3 level be undertaken to gain access to the ore reported in the western part of the workings,
- 2. that the drift walls be tested by diamond drilling,
- that the Union vein be tested by surface drilling and,
- that further prospecting and sampling of the Deadwood Zone be undertaken.

The aformentioned objectives are generally independent of one another, none being necessarily contingent on results of the others and could, subject to financial constraints, be carried on concurrently.

PRELIMINARY COST ESTIMATE

With regard to its prime objective, the company has estimated the costs of rehabilitating the No. 3 Level at \$200,000. This is based in part on obtaining used equipment and supplies and on renting certain equipment. A more precise estimate will require researching the availability of such items and/or obtaining firm bids for certain phases of the work.

1.	Preparation and rehabilitation	\$ 200,000
2.	Lateral underground drilling 200 metres @ \$60/metre	12,000
3.	Surface drilling Union Vein 2 holes, 90 metres @ \$75/metre	7,000
4.	Deadwood Zone - Trenching & Sampling	10,000
5.	Assaying, Engineering & Miscellaneous	15,000
	Total	\$ 244,000

Respectfully submitted

January 27, 1983 Vancouver, B.C. HAROLD M. JONES, P. Eng.

G. A. NOEL & ASSOCIATES INC.

REFERENCES

- 1. Annual Reports, B.C. Minister of Mines 1897-1949
- Cockfield, W.E. (1936) Lode Deposits of Ymir-Nelson Area, B.C. Geol.Surv. Can. Mem. 191.
- 3. Geological Survey Canada Summary Report 1911
- Jones, H.M. (1982) Summary Report on Hillside Gold Prospect, Nelson M.D., 82F/6W, private report for New Tyee Resources Ltd.
- Maconachie, M.E. (1941) Gold Mine Leasing Experiment, B.C. Government open file report
- Mulligan, R.(1952) Bonnington Map-Area, B.C. Geological Survey Can. paper 52-13

APPENDIX I STATEMENT OF COSTS

STATEMENT OF COSTS

Wages:	L.S. Trenholme, P.Eng geolog	jist	
	Sept. 14-18, and Oct2-6		
	10 days @ 150/day	\$1,500.00	
	H.M. Jones, P.Eng Consulting	ng	
	Geologist	Maria da	
	Sept. 16-18, and Sept. 30, Oct	.1-8	
	12 days @ 300/day	3,600.00	
	C. Pitman - survey assistant -		
	Oct. 1-5	500 00	
	5 days @ 100/day	500.00	\$ 5,600.00
**-b / -1			
Vehicl			
	4X4 truck rental- Burge Motors	150.00	
	Sept 16-18 4X4 truck rental- Red Hank Ren		
		544.63	
	Sept. 30-Oct. 8 Gas and oil	75.00	
	Gas and Oli	73.00	769.63
Room &	Board:		
	Two men - 22 man days @35/day		770.00
Instru	ment Rental:		50.00
Travel			
	Two round trips PWA Vancouver	to	
	Castlegar @ 181.40		362.80
Assays			
	43 samples @ 13.25/sample		
	gold and silver		569.75
Field	Equipment:		
	Axe, flagging tape, etc.		50.00
Report	and Map Preparation:		
	Report	600.00	
	Maps	150.00	
	Secretarial	75.00	
			825.00
	Total		\$8,997.18

APPENDIX II ASSAY CERTIFICATES



CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE: (604) 984-0221

TELEX:

043-52597

· ANALYTICAL CHEMISTS

GEOCHEMISTS

· REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERT. #

: A8213511-001-A

INVOICE # : 18213511

DATE

: 27-SEP-82

P.O. #

: NONE

CAL

508-475 HOWE STREET

VANCOUVER, B.C.

TO : TRENHOLME, MR. L.S.

V6C 2B3

CC: H. JONES, P.ENG.

			and the second second	The state of the s		
	Sample description	Prep	Ag FA	AU FA oz/t		
	45411	207	0.06	0.132	 	
	45424	207	6.52	0.382	 	
	49627	207	0.72	0.024	 	
,	49630	207	0.54	0.018	 	

CANADIAN TESTING **ASSOCIATION**

