



52F10NW0402 15 VAN HORNE

010

DIAMOND DRILLING

Township: Van Horne

Report No: 15

WORK PERFORMED FOR: Van Horne Gold Exploration Inc.

RECORDED HOLDER: SAME AS ABOVE []

: OTHER [x] Norontex Explorations Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
K 672567	VHG-1	549'	Jan/87	(1)(2) ↓ ↓
	VHG-2	567'	Jan/87	
	VHG-3	499'	Feb/87	
NE 1/4, N 1/2, lot 11, Con. I	VGH-87-4	359'	Feb/87	
K 706027	VGH-87-5	469'	Feb/87	
K 672028	VGH-87-6	393'	Feb/87	
K 533394	VHBR-87-8	306'	Feb/87	
K 533391	VHBR-87-9	406'	Feb/87	
K 533307	VHBR-87-10	307'	Feb/87	
K 558598	VHBR-87-12	305'	Feb/87	
	VHBR-87-13	318'	Feb/87	

NOTES: (1) #74-87 (filed in August/87)
(2) This submission also submitted under OMEP, Report # OMB6-3-P-229

VAN HORNE GOLD EXPLORATIONS LTD.

REPORT ON DIAMOND DRILLING

GLATZ & BONANZA-REDEEMER PROPERTIES

VAN HORNE TOWNSHIP -N.W.Ontario

January - February 1987



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2) diamond drill logs	
3) sections: VHG 87-1.-2,-3; VHG 87-5; VHG 87-6	
VHBR 87-12 & 87-13	

SUMMARY:

A total of 11 holes were drilled on the GLATZ and BONANZA-REDEEMER properties during the early part of 1987.

Total combines footage amounted to 4413 feet.

The purpose of this drilling was to test the economic gold potential of several VLF anomalies, geochemical (gold) anomalies and the downward extensions of quartz vein structures encountered in some of the trenches and shafts, of which the majority was sunk during the early 1900's.

The drilling intersected several zones with quartz veins and veinlets, silicification, minor feldspathization and sulphide enrichment.

Gold values obtained in this drilling were more encouraging on the Glatz holdings and it is recommended that further work be concentrated on this property.

INTRODUCTION:

During the month of December 1986, Norontex Exploration Ltd was commissioned by Van Horne Gold Exploration Inc. to supervise a diamond drill programme on the company's claimholdings in the Van Horne Township, near Dryden, N.W.Ontario.

The drill moved into the area January 11, 1987 and drilling commenced January 15; the last hole of the programme was completed on February 26, 1987.

Initially only one drill would be utilized to conduct this program, however manpower shortage and personnel experience necessitated the use of a second drill in February to see this program to its completion.

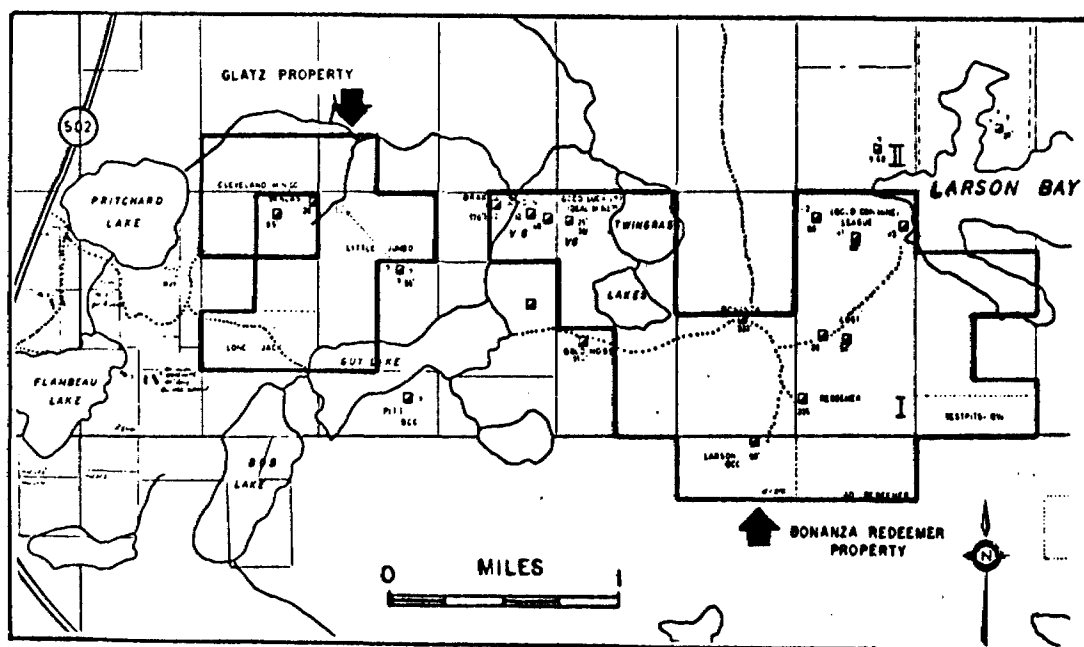


Figure 1.

Five holes, totaling 2477 feet were drilled on the Glatz option, which forms the western portion of the claim holdings, whereas 6 holes were drilled on the Bonanza-Redeemer property, in the centre and eastern portion of the claim group, for a total of 1936 feet - see figure 1.

Due to inaccessibility, hole VHBR 87-7 was cancelled.

Core was logged at the premises of Norontex Exploration in Dryden, where it is temporarily stored until this fall when final storage can be arranged at the core library facilities of the M.N.R in Kenora.

As topics, such as General Geology, Property Geology, Previous Work, History etc.etc. have been described in detail in the various company reports, prepared by R.Gillick (1983) and T.S. Jolliffe (1984), it is considered unnecessary to repeat those in this report other than a condensed version of same; for details, the reader is referred to the aforementioned reports.

PROPERTY DESCRIPTION, LOCATION, ACCESS, SERVICES, TOPOGRAPHY:

The drill programme covered two properties, i.e. the GLATZ (optioned) property, consisting of 11 claims and the BONANZA-REDEEMER property, consisting of 28 claims.

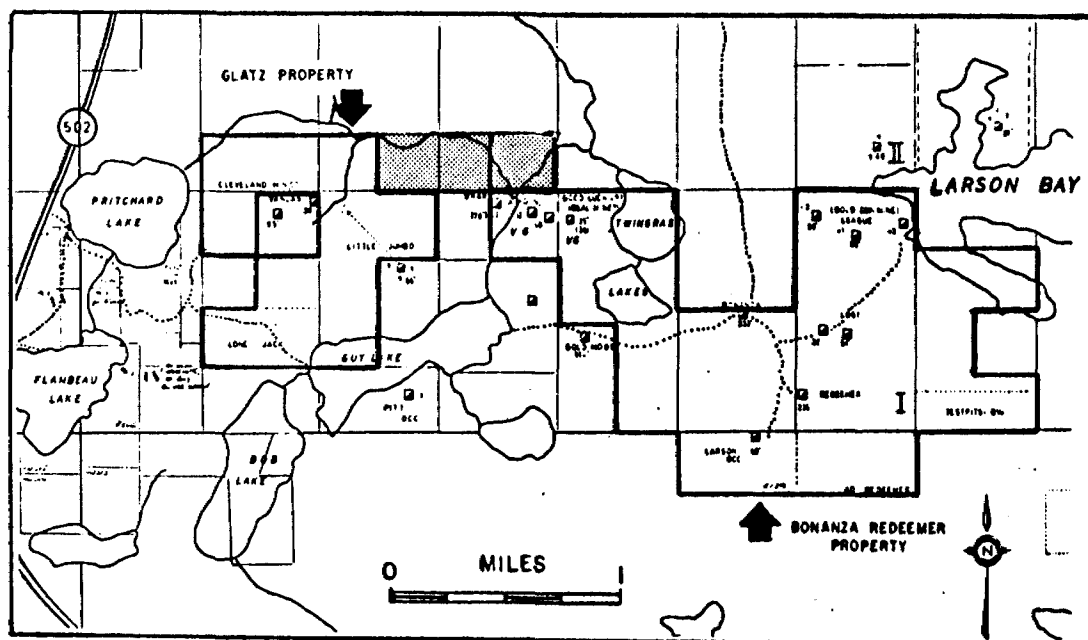


Figure 2.

In December 1986, an additional 7 claims were staked, three of which provide contiguity between Glatz & Bonanza-Redeemer properties on the north side of the claim holdings - see figure 2.

The claim groups are located in the Van Horne Township, claim-map M 2053 and Contact Bay Area, claim map G 2579, some 6 airmiles southwest of Dryden, Kenora Mining Division, N.W. Ontario.

Road access is via highways N° 594 and N° 502, the latter connecting Dryden with highway N° 11, running between Thunder Bay and Fort Frances.

The east end of the Bonanza-Redeemer property is most conveniently reached by boat in the summer time or snowmobile in the winter-time via Wabigoon Lake and Larson Bay, whereas the west end of the Glatz property can be accessed via snowmobile in the winter time via Pritchard Lake along highway N° 502 or by foot via a cross country trail between Pritchard and Flambeau Lake.

Transportation to and from Dryden is excellent: Dryden with a population of some 6800 is situated along the TransCanada Highway and the main line of the Canadian Pacific Railway. Jet service to and from Winnipeg and Thunder Bay - and points beyond - is provided daily by (NordAir)-(Canadian Pacific)-presently P.W.A.

TOPOGRAPHY:

The general Van Horne area is typical of the Precambrian terrain, having broad rolling topography with a general cover of glacial deposits, swamps and muskegs, lakes and ponds. The relief is moderate and sometimes rather variable: eventhough hills average generally less than 150 feet, steep escarpments and locally near-vertical cliffs impede easy access to those places.

HISTORY:

The first recorded geological observations of the area date back to the early 1880's; subsequent work include McInnes' map, published in 1902, Satterly's report on the Dryden - Wabigoon area in 1941 and most recently J.Parker's open file map "Precambrian Geology of the Flambeau Lake - Larson Bay Area, Van Horne & Aubrey Townships, District of Kenora, Ont. Geol. Survey, O.F.M. 33."

Historically mining and prospecting activities, dating back to the late 1800's and early 1900's, have been directed towards the search for gold as the principal resource of the area.

These activities centred around a number of goldbearing quartz-veins resulting in a large number of trenches, pits and shafts of which only the Redeemer Mine and the Bonanza Mine reached limited production.

In the late 1920's virtually all work had been halted as the veins proved uneconomic at that time.

GENERAL GEOLOGY:

The two properties are situated within the western part of the Wabigoon Subprovince of the Superior Province of the Canadian Shield; the Wabigoon belt consists of metavolcanics and meta-sediments intruded by intermediate, felsic and mafic bodies, of variable size.

** Blackburn (1985) divides the Eagle lake - Wabigoon Lake units as follows:(bottom to top)

** "Evolution of Archean Volcanic-Sedimentary Sequences of the Western Wabigoon Subprovince and its margins: a review"
from: Evolution of Archean Supracrustal Sequences ed. L.D Ayres et. al. Geol. Assoc. of Canada, Sp. Paper 28,1985

- 1) Eagle Lake volcanics - a sequence of pillowed mafic flows
- 2) Lower Wabigoon volcanics - a sequence of mafic to felsic volcanics
- 3) Upper Wabigoon volcanics - mafic flows and minor tuffs and cherty "interflow" sedimentary units.

Blackburn (ibid) states that the Eagle Lake volcanics must be older than 2742.8 (+1.4/-1.2) Ma age (dating from a Dacite flow from the overlying Lower Wabiggon Volcanic Group.)

PROPERTY GEOLOGY:

For detailed descriptions on rocktypes, structure, metamorphism and alteration, the reader is referred to the two reports by T.S.Jolliffe (1984) "Geology of the Glatz & Bonanza-Redeemer properties.

The following is condensed from these reports:

GLATZ PROPERTY:

Mafic to intermediate flows occur over much of this property, whereas light grey felsic units are minor. Pyroclastic volcanics are the most abundant, the majority being lapilli tuffs; pyroclastic breccias are less common. The volcanics are eastwest to northeast/southwest trending with steep northerly dips; tops are facing north.

BONANZA-REDEEMER PROPERTY:

In the southern half of the property mafic to intermediate flows predominate, whereas felsic to intermediate flows are abundant in the northern half. As on the Glatz property, pyroclastic volcanic rocks are abundant throughout the property with lapilli tuffs the more common. Applicable to both properties is the fact that the volcanic rocks are cut by numerous dikes and or sills which fall in the category of (altered) lamprophyres, diorite, diabase, felsic dikes and quartz (feldspar) porphyries; peridotite dikes have been noted as well. Intrusive rocks range from gabbro to diorite to porphyritic granite.

DIAMOND DRILLING:

GENERAL:

During the months of January and February 1987, Langley Drilling of Brampton, Ontario and MidWest Diamond Drilling of Winnipeg, Manitoba conducted the drilling on the Van Horne properties, the first company drilling 5 holes on the Glatz property, whereas the latter drilled 6 holes on the Bonanza-Redeemer.

Total footage amounted to 4413 feet, broken down as follows:

VAN HORNE "GLATZ"	VHG 87 - 1	@ 549'	
	VHG 87 - 2	@ 567'	
	VHG 87 - 3	@ 499'	
	VHG 87 - 5	@ 469'	
	VHG 87 - 6	@ 393'	total: 2477 feet

VAN HORNE "BONANZA-REDEEMER"

VHBR 87 - 7	cancelled	
VHBR 87 - 8	@ 306'	
VHBR 87 - 9	@ 406'	
VHBR 87 -10	@ 307'	
VHBR 87 -11	@ 296'	
VHBR 87 -12	@ 305'	
VHBR 87 -13	@ 316'	total: 1936 feet

Casing was inadvertently left in all the VHG-holes and pulled from all the VHBR-holes. Core size of all drilling was BQ ($\emptyset$ 1.7/16"), Langley Drilling utilizing a Winkie JKS 300 and MidWest a Boyles 37A.

Drill moves were helicopter-supported in Langley's Glatz drilling whereas a skidder was used in MidWest's moves.

Presently the core is being stored at the offices of Norontex at 3 Bedworth Road in Dryden, but will be moved to the core library of the M.N.R. offices in Kenora in the fall.

DETAILS DIAMOND DRILL PROGRAMME.

AD GLATZ:

The drill programme on the Glatz option was designed to test several VLF conductors, gold-geochem anomalies, outlined during previously conducted ground geophysical and ground geological surveys and extensions of quartz vein systems under or near existing shafts.

NOTE: Figures 3,4 and 5 are reduced from the geological map, scale 1" = 400' by T.S.Jolliffe, geologist for Van Horne Gold Exploration Inc.; for legend see original geological map.

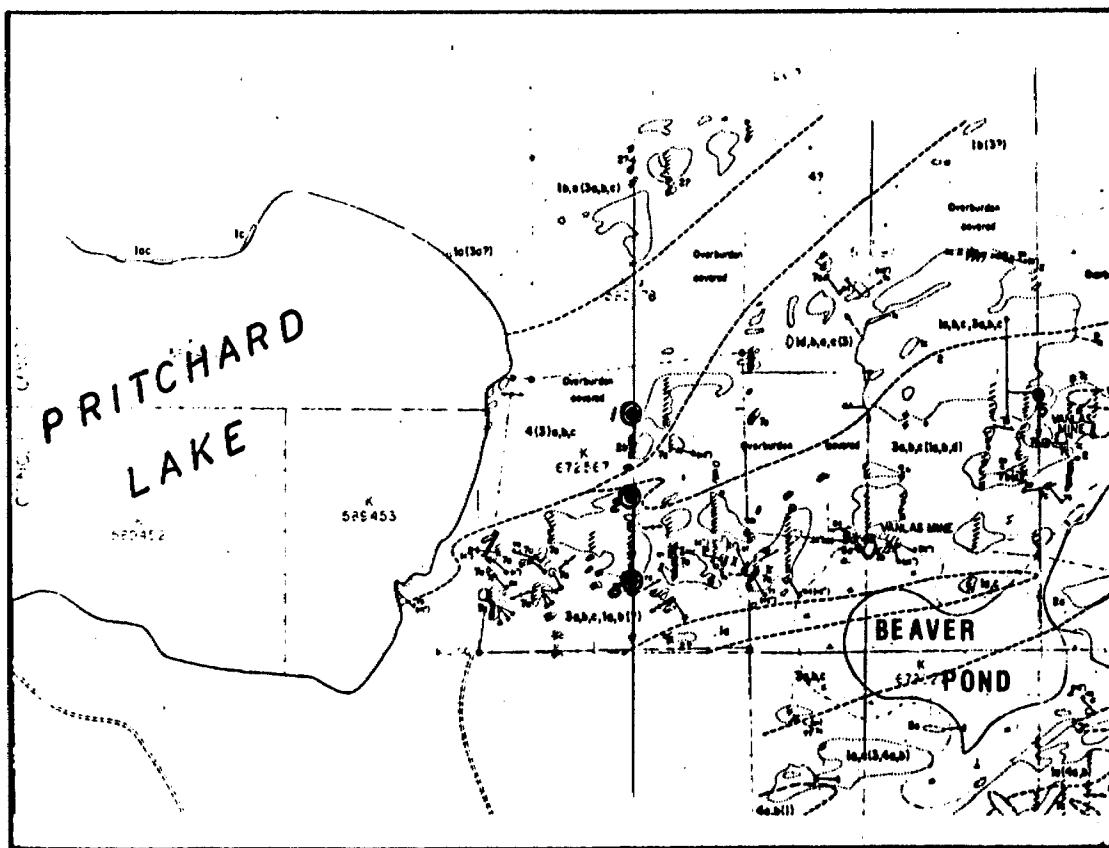


Figure 3.

Drill holes VHG 87-1, 87-2 and 87-3, all drilled on line 4°°East -see figure 3 - were drilled as a fence, VHG 87-2 overlapping VHG 87-1 and VHG 87-3 overlapping VHG 87-2, thus covering a cross section of some 1150 feet of strata, which consist primarily of lapilli tuff and coarse to very coarse pyroclastics; only minor flow material, quartz (feldspar) porphyry and mafic dikes were encountered.

Excessive grinding accounted for a loss of some 22 feet in VHG 87 - 1, two feet in VHG 87-2 and three feet-"plus" in hole N°3, the latter in a critical quartz vein-rich intersection, which assayed .59 oz/ton Au of bits and grit left in this interval.

In general, these three holes showed little alteration such as feldspathization, chloritization and silicification, whereas the occurrence of quartz veins and quartz veinlets is limited to the odd ones randomly crosscutting the formations.

Best assays are as follows:

VHG 87-1	126.0 - 129.0	felsic pyroclastics, some silicification - 0.04 oz/ton Au
	188.0 - 190.4	finegrained lapilli tuff, minor Cp - .19 oz/ton Au
VHG 87-2	339.0 -341.0	highly silicified interval, Magnetite 8%; coarse tourmaline - .06 oz/ton Au
VHG 87-3	315.0 - 316.7	contact zone lapilli tuff & quartz-porphyry - .05 oz/ton Au
	429.3 - 432.3	LOST CORE, width sample unknown, contains quartz vein mat.- .59 oz/ton Au

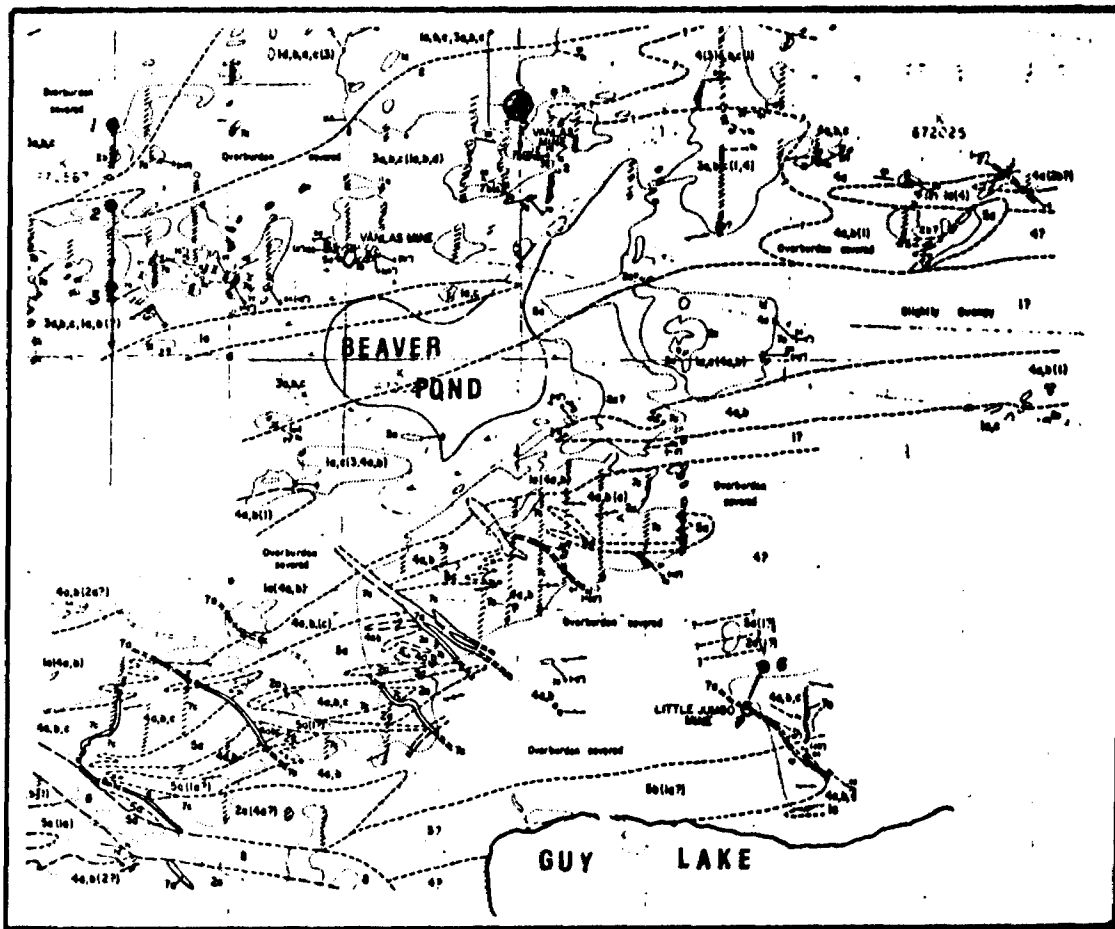


Figure 4.

Drill hole VHG 87-5 was drilled to test the downward extension of the quartz vein(s) in one of the VANLAS mine shafts. Eventhough a zone of intense quartz vein stockwork in mafic flow or dike material (oldtimers "trap"?) was encountered between 274.0 and 289.5, assay results of samples were all "trace". Alteration consists of silicification and minor sericitization carbonatization and chloritization. This hole experienced excessive flattening - from 45° to 28° in first 310 feet - and excessive grinding resulting in a total of 22 feet-plus of LOST CORE in various places. This hole ought to be redrilled and continued for at least another 250 feet to test extensions of quartz vein structures known to occur further to the south - see figure 4.

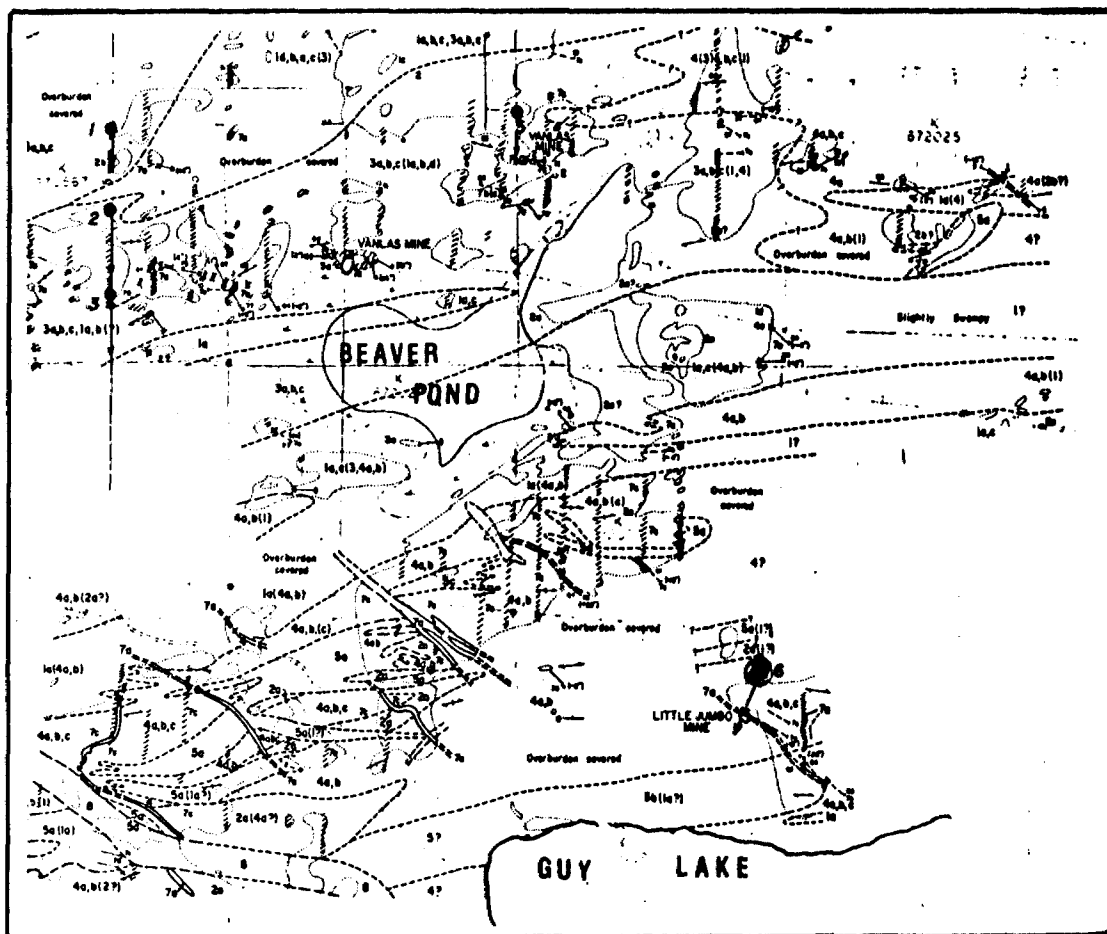


Figure 5.

Hole VHG 87-6 was drilled under the Little Jumbo Shaft -see fig.5
 Rock types were predominantly coarse to very coarse fragmentals
 with three porphyritic (quartz) intervals. The main concentration
 of quartz veins and veinlets occurs between 190.0 and 209.0
 with samples all assaying trace to .02 oz/ton Au. Check samples
 of the quartz porphyritic intervals assayed all "trace".
 Best assay result of .07 oz/ton Au was obtained from badly
 ground core containing quartz vein material within very coarse
 pyroclastics at 157.0 to 158 feet.

Hole VHG 87-6 lost more than 9 feet in core from various places.

Ad BONANZA-REDEEMER:

The drill programme on the Bonanza-Redeemer property tested the downward extensions of quartz vein structures encountered in the various shafts and trenches.

As such, VHBR 87-8 was drilled under the GOOD LUCK mine (drilled from south to north due to topography).

This hole failed to intersect a discrete zone of quartz veins: samples taken assayed all but one "trace"; best assay .02 oz/ton Au.

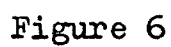
Hole VHBR 87-9, drilled to test the IDEAL MINE, intersected substantial zones of intense silicification, quartz veins and some feldspathization between 255 and 374 with minor quartz porphyry intervals; however all samples taken, assayed "trace".

Hole VHBR 87-10 tested some trenches at depth. Rock types encountered consist of intermediate to mafic tuff, mafic lava's quartz porphyries and minor quartz: samples taken assayed "trace".

VHBR 87-11 was drilled underneath a system of trenches, designated as "MINING LOCATION SV 372?". Predominantly mafic to intermediate volcanics were intersected with minimal amounts of quartz veins and veinlets: assays were all "trace".

VHBR 87-12 and VHBR 87-13 were drilled on line 16°° East to test the LOST MINE. Twenty two samples were taken in hole 87-13, all assaying "trace", whereas hole 87-12 (drilled closest to the shaft) returned several encouraging intersections, assaying from .14 oz/ton Au over one foot to .08 oz/ton Au over .9'. The better values occur in the interval 140.1 to 156.0 which consists of felsic to intermediate tuffs with locally quartz veins & veinlets and minor silicification.

Figures 6 and 7 show drill hole locations (Geol. map by Jolliffe 1983)



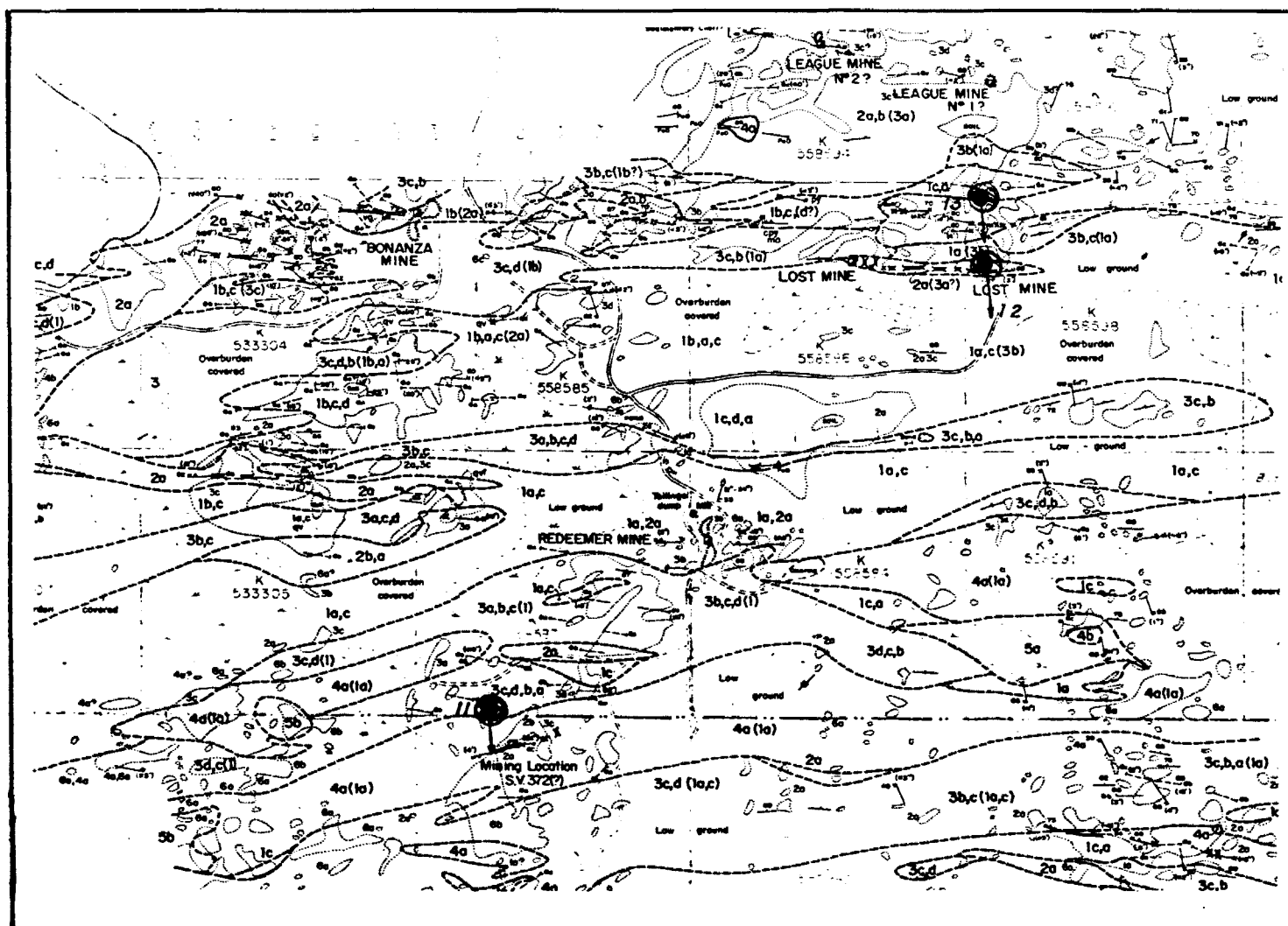


Figure 7 (reduced portion of geolog. map by Jolliffe (1983))

CONCLUSIONS:

The drilling on the Glatz and Bonanza-Redeemer properties revealed several intervals with quartz veins, silicification and sulphide enriched zones.

Values obtained were more encouraging on the Glatz property and it is recommended that presently further work be conducted only on the Glatz holdings.

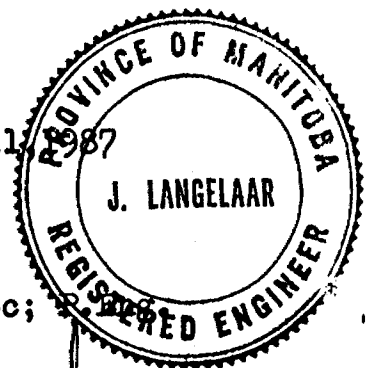
CERTIFICATE OF QUALIFICATION

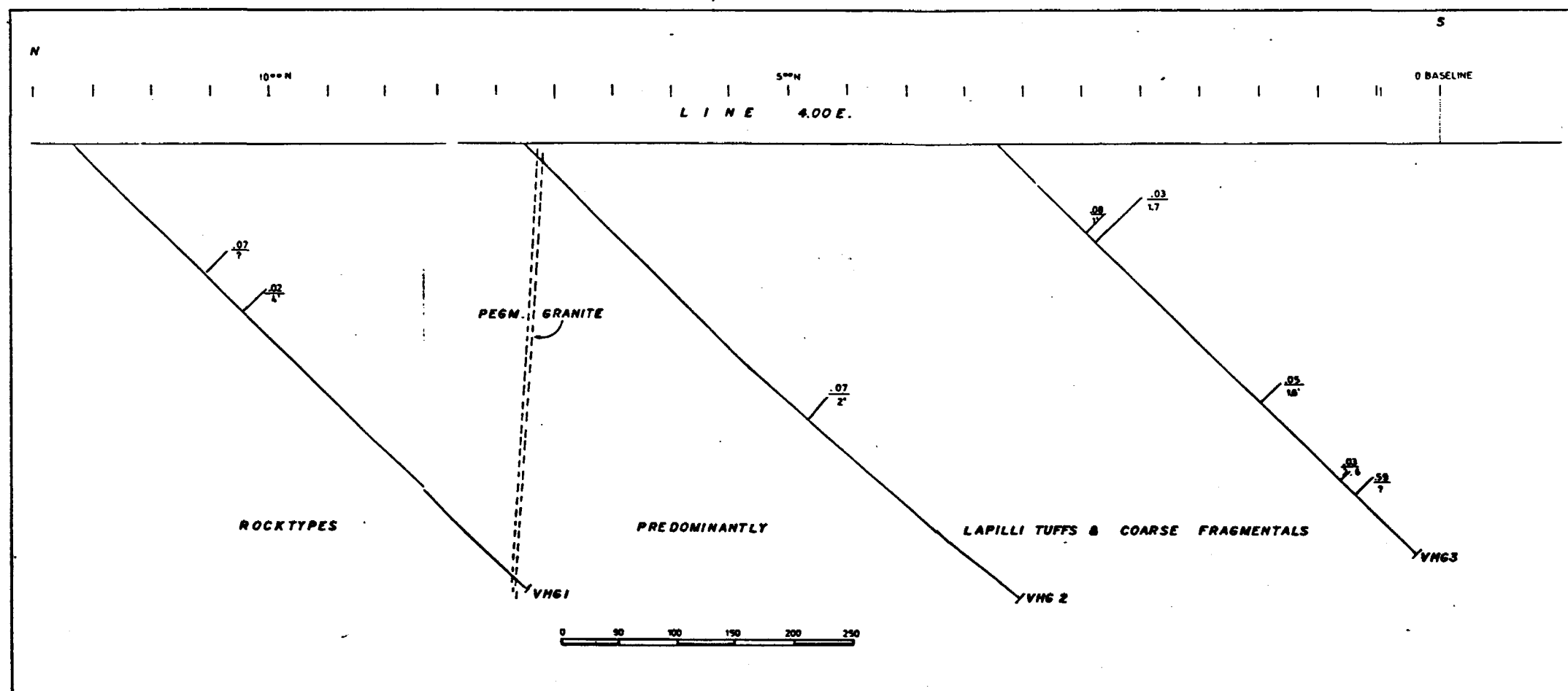
I, Joop Langelaar, of the Town of Dryden, in the Province of Ontario, do hereby certify that:

- 1) I am a consulting geologist and reside at 3 Bedworth Road, Dryden, Ontario.
- 2) I am a Professional Engineer in the Province of Manitoba.
- 3) I am a graduate of the State University of Utrecht, The Netherlands, and hold a Bachelor of Science Degree and a Master of Science Degree in geology and sedimentology.
- 4) I have been practising my profession as a Geologist since 1966. For a period of 16 years I worked nationally and internationally for a major Canadian mining company: during the last 6 years as Manager of Exploration.
- 5) I have no interest, either directly or indirectly in the property described in this report; I do not expect to receive, either directly or indirectly any interest in the securities of Van Horne Gold Explorations Inc.

Dated at Dryden, Ontario, this 6th day of April, 1987

J. Langelaar, M.Sc;





SECTIONS FOR VHG 87-1, 87-2 and 87-3

N

S

VANLAS

QUARTZ. VEIN
STOCKWORK

TRACE

SCALE 1" = 50'

$\frac{.04}{1.2'} = \frac{\text{oz/ton Au}}{\text{core length}}$

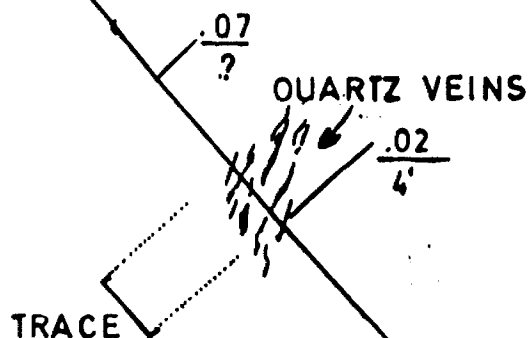
$\frac{.04}{1.2'}$

VHG 5

NNE

SSW

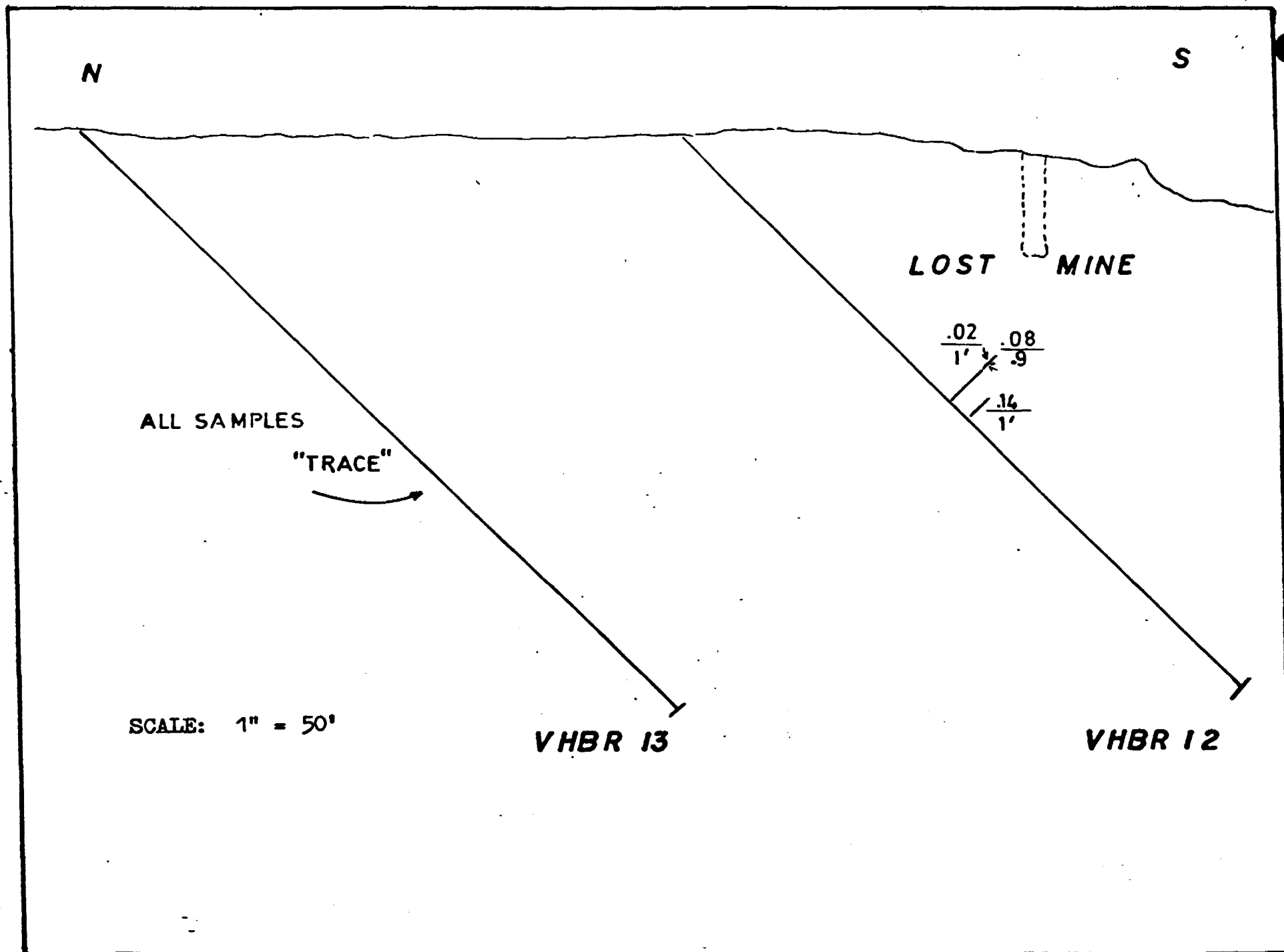
LITTLE JUMBO



SCALE: 1" = 50'

$$\frac{.02}{4'} = \frac{\text{oz/ton Au}}{\text{core length}}$$

VHG 6



norontex exploration ltd.

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
NORONTEX

ASSAY CERTIFICATE

Date: February 19, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
8516	D. D.	TRACE	
17		TR	
18		TR	
19		TR	VHBR 87-13
20		TR	
21		TR	
22		.01	
23		TR	
24		TR	
25		.01	
26		.02	
27		.08	
28		.14	VHBR 87-12
29		TR	
30		TR	
31		TR	
32		TR	
33		TR	
9462		.05	
63		TR	
64		TR	VH6
65		TR	#3
66		.03	
67		.59	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
NORONTX

ASSAY CERTIFICATE

Date: February 23, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
8534	D. D.	TRACE ✓	VHBR 87-12
35		TR ✓	
36		TR	
37		TR	
38		TR	
39		TR	
40	VHBR 87-11	TR	
41		TR	
42		TR	
43		TR	
44		TR	
45		TR	
46		TR	
47		TR	
48		TR	
49		TR	
50		TR	
51		TR	
52		TR	
53		TR	VHBR
54		TR	87-10
55		TR	
56		TR	
57		TR	

Assayer: J.W. Beck



COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
NORONTEX

ASSAY CERTIFICATE

Date: February 25, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
8565	D. D.	TRACE ✓	
66		TR ✓	✓HBR 87.8
67		.02 ✓	
68		TR ✓	
69		TR /	
70		TR ✓	
71		TR	
72		TR	
73		TR	
74		TR	
75		TR TR	
76		TR	
77		TR	
78		TR	
79		TR	
80		TR	
81		TR	
82		TR	
83		TR	
84		TR	
85 XXX	V.G. A	TR	
85	V.G. B	TR	
86		TR	
87		TR	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

Phone: Bus. 727-2220
Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
NORONTEL

ASSAY CERTIFICATE

Date: February 28, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
251	L. D.	TRACE ✓	14RB 87-9.
252		TR ✓	
8595		TR ✓	
96		TR ✓	
97		TR ✓	
98		TR ✓	VHG #5
99		TR ✓	
8600		TR ✓	
9491		TR	
92		TR	
93		TR	
94		TR	
95		TR	
96		TR	
97		TR	
98		TR	
99		TR	
9500		.01	
01		.01	
02		TR	
03		TR	
04		TR	
05		TR	
06		TR	

Assayer: J.W. Beck

COCHENOUR FIRE ASSAYING LTD.

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Res. 662-3341

J.W. Beck, Assayer,
Box 43, Cochenour, Ont.

"Assaying for over 30 Years"
Norontek

ASSAY CERTIFICATE

Date: March 5, 1987

Sample No.	Description	oz/ton Au	oz/ton Ag
9515	D. D.	TRACE	
16		TR	
17		TR	
18		TR	
19		TR	
20		TR	
21		TR	
22		.07	1/46
23		TR	87.6
24		TR	
25		TR	
26		TR	
27		TR	
28		TR	
29		TR	
30		TR	
31		TR	
32		TR	
33		.02	
34		TR	
Total assays for March 5, 1987 - 20			

Assayer: J.W. Beck

DIP TESTS ON PAGE ...9:.....

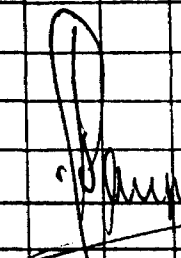
NORONTEX EXPLORATION LTD.

DRYDEN - Ontario. ph: 807-937-5085

EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD EXPL. - GLATZ</u>		CLAIM NO. <u>K 672567</u>	BEARING <u>183° mag</u>	LAT: <u>4+00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 555 ft west and 273 ft south of N° 1 of 672567		HOLE NO. <u>VHG #1.</u>
DAY STARTED <u>Jan. 15, 1987</u> DAY COMPL. <u>Jan. 19 '87</u>		J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>11+68N</u>			TOTAL DEPTH <u>549</u>
LOGGED BY <u>J. Langelaar</u>		GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>-</u>			PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg.
		Summary: This hole covers a section which consists of predomin. lapilli tuffs and coarse fragmentals: intermediate pyroclastics.													
		Best assays: 188.0 - 190.4 @		.19 oz/ton											
		126.0 - 129.0 @		.04 oz/ton											
0	10.0	Casing													
10.0	26.5	Mafic to intermed. lapilli tuffs; odd speck Py	« 1%												
		Badly ground core between 12.0 & 13.0. Slightly magnetic; no obvious core angles													
26.5	27.5	Intensely silicif. section with 1/2" contorted/ convoluted quartz veinlets and massive Qtz. "blob"	1.0 R9401												
27.5	33.0	Lapilli tuff; last 3' grades into light grey pyroclastic series with elongated fragments or bombs													


 PROVINCE OF MANTOYA
 J. LANGELAAR
 REGISTERED ENGINEER
 April 6, 1987

EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD EXPL. - GLATZ		CLAIM NO. <u>K 622567</u>	BEARING <u>183° mag</u>	LAT: <u>4+00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST:		HOLE NO. <u>VHG #1.</u>
DAY STARTED <u>Jan. 15, 1987</u> DAY COMPL. _____		J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: _____			TOTAL DEPTH _____
LOGGED BY <u>J. Langelaar</u>		GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>-</u>			PAGE NO. <u>2</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg.
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
--	33.0		contin'd - up to 2" long; towards 33.0													
			noticeable increase in Py content overall		2%											
			ground core 29.4 to 30.0													
33.0	39.0		Light grey volcanoclastics - coarse elongated													
			components up to 2" long; highly silicif. Dissemin.													
			of Py and cubic Py; locally up to 3 - 4% ; overall		3%											
			check samples: 33.0 - 36.0			R9402	3.0							tr		
			36.0 - 39.0			R9403	3.0							tr		
39.0	49.0	LC	ONLY ONE FOOT LEFT; lost core. Light grey silic.													
			pyroclastics; drillers indicated "mud seams??"													
			near 49.	ONE FOOT		R9404	1.0							tr		
49.0	59.0		ONLY FIVE FEET OF CORE, rest ground!!													
			Predom. coarse light grey pyroclastic material													
			with Py locally up to 4 - 5%; overall	Py	3%											
			Highly silicif.													
			check samples of 2 1/2 ft: 49.0 - 54.0			R9405	2.5							tr		
			54.0 - 59.0			R9406	2.5							tr		
NOTE: IT IS SUSPECTED THAT CONSIDERABLE MORE CORE HAS BEEN LOST IN THE PRECEDING INTERVALS!																

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD EXPL. - GLATZ</u>	CLAIM NO. <u>K 672567</u>	BEARING <u>183° mag</u>	LAT: <u>4+00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST:	HOLE NO. <u>VHG #1.</u>
DAY STARTED <u>Jan. 15, 1987</u> DAY COMPL. _____	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: _____		TOTAL DEPTH _____
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>-</u>		PAGE NO. <u>4</u>

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PROPERTY <u>VAN HORNE GOLD EXPL. - GIATZ</u>	CLAIM NO. <u>K 672567</u>	BEARING <u>183° mag</u>	IAT: <u>4:00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST:	HOLE NO. <u>VHG #1.</u>
DAY STARTED <u>Jan. 15, 1982</u> DAY COMPL. _____	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: _____		TOTAL DEPTH _____
LOGGED BY <u>J. Jangelaar</u>	GRID NO. <u>GIATZ</u>	NTS <u>52F10</u>	ELEV: <u>-</u>		PAGE NO. <u>9</u>

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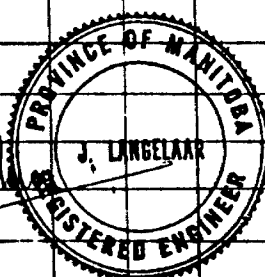
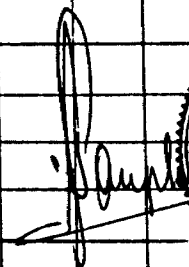
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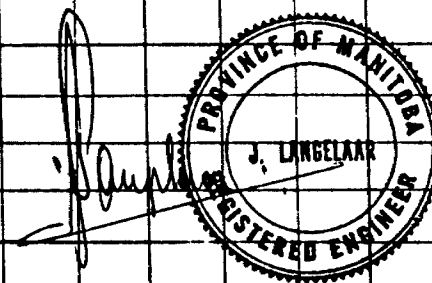
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PROPERTY <u>V.L. HOME GOLD - GLATZ option</u>	CLAIM NO. <u>672567</u>	BEARING <u>153°E</u>	LAT: <u>44°00' East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>555' west of</u> <u>and 668' south of post</u> <u>#1 of 672567</u>	HOLE NO. <u>VHG-2</u>
DAY STARTED <u>Jan. 22/87</u> DAY COMPL. <u>Jan 26 '87</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>7472 North</u>	TOTAL DEPTH <u>567'</u>	
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>Glatz</u>	NTS <u>52F40</u>	ELEV: <u>?</u>	PAGE NO. <u>1</u>	

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA										oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb						
		SUMMARY:	This hole consists of predomin. felsic to intermed. pyroclastics, ranging from lapilli tuffs, some very finegrained to very coarse fragmentals with fragments reaching up to 9 cm in size. Minor flow material.															
		BEST ASSAYS:	339.0 - 341.0 & 0.06 oz/ton Au - rerun at .07 oz/ton.															
0	8.0	Casing																
8.0	16.4	Coarse intermed. pyroclastics; fragments rounded to subrounded and elongated. Matrix grey-green in colour; odd speck & cube of Py	1 mm - 5 cm,															
16.4	17.3	Quartz vein, pegmatitic + calc + tourmaline: identical to the one intersected in hole VHG #1	539.3 - 541.3.															
		"Bottom" contact @ 46°; in places coarse and Pyrite	tourmaline															
					R9431	.9								trace				
17.3	19.0	Coarse pyroclastics.																
19.0	21.0	Coarse pyroclastics; contains 1" qtz vein plus calc. @ 20.0' with Py increase (dissem. + cubes)																
		may have 1 - 2" of interbedded metaseds	checksample		R9432	2.0								trace				
21.0	109.0	Variable felsic to intermed. pyroclastics;																



April 6, 1987



April 6, 1987

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EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD - GLATZ option

CLAIM NO. 672567

BEARING 183° 18a

LAT: 4+00 East

LOCATION OF D. DRILL HOLE
IN RELATION TO NEAREST
CLAIM POST: 555' west of
and 668' south of post
#1 of 672567

HOLE NO. VHG-2

DAY STARTED Jan. 22/87 DAY COMPL. Jan 26 '87

J.V. NO. na

ANGLE 45°

DEP: 7+73 North

TOTAL DEPTH 567'

LOGGED BY J. Langelaar

GRID NO. Glatz

NTS 52F10

ELEV: ?

PAGE NO. 7

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
390.0	449.0	Finegr. lapilli tuffs; disseminated magnetite throughout estimated at 3 - 4%; odd scattered Py; odd qtz & qtzcalcite veins and veinlets: two check samples.														
		401.0 - 403.0	1/2" qtzvn & 2" calcite vein			R9448	2.0						trace			
		445.0 - 447.0	1" grey qtzvn, concentrated within qtzvn			R9449	2.0						trace			
449.0	508.0	Finegrained lapilli tuff; finely disseminated Magnetite throughout first 35 feet; odd Py - less than 1%														
		Weak core angles at 490 @ 45°. Occasional qtzveinlets and calcite veinlets crosscutting core. Generally increase in Py content near qtzvns. Following are check samples only.														
		452.5 - 454.0	Disseminated Magnetite, 1" qtzvn+coarse Py			R9450	1.5						.01			
		462.5 - 464.0	2 1/2" qtzcarbvn + disseminated magnetite			R9451	1.5						.01			
		469.0 - 471.5	contains 2 vuggy calcite/ qtzvns, minor magnetite. qtzvns @ 2" each at 469.2 & 471.2			R9452	2.5						trace			
		478.8 - 479.8	Two qtzvns 1 to 1 1/2"; vuggy, minor magnetite. From 489 onward minor to no magnetite; odd Py,			R9453	1.0						trace			

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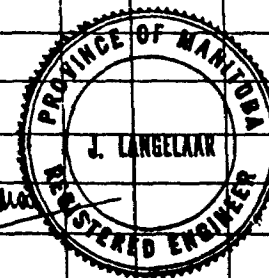
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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - GLATZ OPTION</u>	CLAIM NO. <u>672567</u>	BEARING <u>183° mag</u>	LAT: <u>4° East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>348'</u> north and <u>595'</u> west of N° 2 of 672567	HOLE NO. <u>VHG 87-3</u>
DAY STARTED <u>Jan 28, '87</u> DAY COMPL. <u>Febr. 4</u>	J.V. NO. <u>-</u>	ANGLE <u>45°</u>	DEP: <u>3.81 North</u>		TOTAL DEPTH <u>499'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>Glatz</u>	NTS <u>52F10</u>	ELEV: <u>??</u>		PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA										oz/ton Au	oz/ton Ag	Avg.
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb						
		SUMMARY:	Predominant rocktypes in this hole are lapilli tuffs and coarse to very coarse pyroclastics. Contains interval of quartz feldspar porphyry from 316.7 - 338.9 - assays all "trace"															
			Best assay from section of Lapilli tuffs where most of the core has been ground.....!															
			assay @ .59 oz/ton Au with width UNKNOWN!															
0	7.0	Casing																
7.0	12.8	Var. dh-grey /black mafic flow- somewhat talcose-																
		easily to grind (done); finely scattered Py; less			1%													
12.8	52.4	Lapilli tuff; "bottom" contact with coarse pyrocl.																
		could be erosional, cuts core @ 52°; weak core angles																
		at 50°; odd qtz veinlet.																
52.4	104.0	Coarse to very coarse pyroclastics with intermixed																
		lapilli tuff.																
		From 60.4 - 63.4 becomes very finegrained, tuffaceous																
		containing several 2" to 5" grey qtz and			qtzcarb													
		veins with dissem. Py and cubic Py. May even contain 3" of finegrained metaseds - slates-;																



April 6, 1987

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EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD - GLATZ OPTION

CLAIM NO. 672567

BEARING 183° mag

LAT: 4°° East

LOCATION OF D. DRILL HOLE
IN RELATION TO NEAREST
CLAIM POST: 348' north
and 595' west of N° 2
of 672567

HOLE NO. VHG 87-3

DAY STARTED Jan 28, '87 DAY COMPL. Febr. 4

J.V. NO. -

ANGLE 45°

DEP: 3.81North

TOTAL DEPTH 499'

LOGGED BY J. Langelaar

GRID NO. Glatz

NTS 52F10

ELEV: ??

PAGE NO. 2

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
cont'd	104.0	checksample	61.5 to 63.0 Py less than	2%		R9455	1.5						trace		
			Odd 1/2" to 3/4" qtzcalcite vns at 78.3, 87.3, 97.0												
			and 101.0. At 97.0 three 1/4" to 1/2" qtzcalcite												
			veinlets with considerable increase in	generally											
			coarse cubic Py over .4': checksample	96.8-97.2		R9456	.4						trace		
			At 98.0 locally over 1" Py up to 4% (cubic); overall												
			Py content for this complete interval less or =	1%											
104.0	181.0		Variable pyroclastics; predom. lapilli tuffs. May												
			locally contain narrow bands of very finegrained												
			flow material?? and or metaseds.												
			1/2" to 1" qtz and qtzcarb vns at 106.2, 108, 118.8												
			120, 121.5, 124.3, 131.5, 135.6, 139.3, 166.7	and 174.5.											
			Somewhat intense calc. vning from 116.0	- 118.0											
			checksamples as follows:												
			108 - 109.0 Var.pyroclast., seds+ One qtzvn Py	2%		R9457	1.0						.08		
			118.0 - 120.0 Var.lapilli tuff; calcite	2" qtzvn		R9458	2.0						trace		
			118.8												
			120.0 - 121.7 Var.pyroclastics; 2" qtzvn @ 120			R9459	1.7						.03		

EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - GLATZ OPTION</u>	CLAIM NO. <u>672567</u>	BEARING <u>183° mag</u>	LAT: <u>4° East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>348'</u> north and <u>595'</u> west of N° 2 of 672567	HOLE NO. <u>VHG 87-3</u>
DAY STARTED <u>Jan 28, '87</u> DAY COMPL. <u>Febr. 4</u>	J.V. NO. <u>-</u>	ANGLE <u>45°</u>	DEP: <u>3.81 North</u>		TOTAL DEPTH <u>499'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>Glatz</u>	NTS <u>52F10</u>	ELEV: <u>??</u>		PAGE NO. <u>5</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - GLATZ OPTION</u>	CLAIM NO. <u>672567</u>	BEARING <u>183° mag</u>	LAT: <u>4° East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>348'</u> north and <u>595'</u> west of N° 2 of 672567	HOLE NO. <u>VHG 87-3</u>
DAY STARTED <u>Jan 28, '87</u> DAY COMPL. <u>Febr. 4</u>	J.V. NO. <u>-</u>	ANGLE <u>45°</u>	DEP: <u>3.81 North</u>		TOTAL DEPTH <u>499'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>Glatz</u>	NTS <u>52F10</u>	ELEV: <u>??</u>		PAGE NO. <u>6</u>

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DIP TESTS ON PAGE9.....

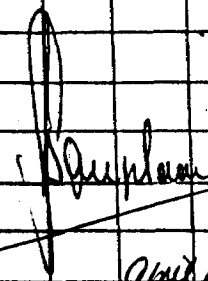
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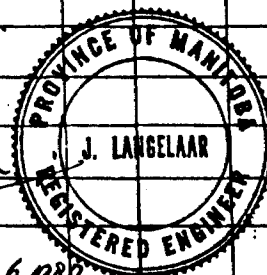
EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS - GLATZ PROP.</u>	CLAIM NO. <u>706027</u>	BEARING <u>182° mag.</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of N°1 post 706027	HOLE NO. <u>VHG 87-5</u>
DAY STARTED <u>16 Febr. 1987</u>	DAY COMPL. <u>Febr. 21</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>	TOTAL DEPTH <u>469'</u>	
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>??</u>	PAGE NO. <u>1</u>	

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
			SUMMARY: This hole consists of coarse to very coarse intermed. pyroclastics, minor lapilli tuffs and mafic flows and or dikes. From 274.0 to 289.5 Zone of intense quartz vein stockwork All assay results within this zone are TRACE. HOLE SHOULD BE REDRILLED AND CONTINUED.												
0	5.0		Casing.												
5.0	6.0		Finegrained lapilli tuff												
...	9.2	LC	Finegrained mafic flow - basalt; slightly talcose 4 feet of lost core!!												
9.2	14.0		Light grey-green finegrained mafic flow, amygdaloidal. Locally "weathered" intersections + limonite checksample: 10.0 - 11.3: 2" badly broken core			B9491	1.3							trace	
14.0	29.1		Predom. coarse grained pyroclastics with minor Lapilli tuff interbeds.												



April 6, 1929



EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS -GLATZ PROP.</u>	CLAIM NO. <u>706027</u>	BEARING <u>182° mag</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of	HOLE NO. <u>VHG 87-5</u>
DAY STARTED <u>16 Febr. 1987</u> DAY COMPL. <u>Febr. 21</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>		TOTAL DEPTH <u>469'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>??</u>	Nº1 post 706027	PAGE NO. <u>2.</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS -GLATZ PROF.</u>			CLAIM NO. <u>706027</u>	BEARING <u>182° mag</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>164 ft east of and 360 ft south of</u>					HOLE NO. <u>VHG 87-5</u>					
DAY STARTED <u>16 Febr. 1987</u> DAY COMPL. <u>Febr. 21</u>			J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>						TOTAL DEPTH <u>469'</u>					
LOGGED BY <u>J. Langelaar</u>			GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>??</u>	N°1 post 706027					PAGE NO. <u>4</u>					
FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
144.1	156.3	Mix of coarse pyroclastics & lapilli tuff; scarce speck of Py and veinlets (carb)														
156.3	164.4	Mafic - intermed. dike; amygdaloidal; weak schistosity locally var. magnetic; Core angles near 62' @ 57° This interval could be mix of dike material & lapilli tuff.														
164.4	166.3	Coarse intermed. pyroclastics														
166.3	169.0	Strongly hematized coarse pyroclastics - "weathered" appearance - light red-brown! Discoloration pervasive throughout complete core; check sample	166.3-169.0	R9497	2.7								trace			
169.0	191.4	Predom. coarse intermed. pyroclastics. Same phenomenon as "166.3 - 169.0" occurs between 183.0 - 184.6. Core broken up in 183 - 184.6 interval- grinding!														
191.4	199.0	Finegrained intermed. lapilli tuff; odd Py, core angles near top of section @ 46°														
199.0	204.0	Mafic dike with intense qtz flooding: irregular qtz vns (2"+) and qtz patches; odd speck of Py of Py along silicif. veinlets 1 - 3mm wide; contains 1 stringer of Cp @ 1½" long		R9498	5.0								trace			
		Last 1½' stringlets														

EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS -GLATZ PROP.</u>	CLAIM NO. <u>706027</u>	BEARING <u>182° mag.</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of	HOLE NO. <u>VHG 87 5</u>
DAY STARTED <u>16 Febr. 1987</u> DAY COMPL. <u>Febr. 21</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>		TOTAL DEPTH <u>469'</u>
LOGGED BY <u>J. Langeleer</u>	GRID NO. <u>GLATZ</u>	NTS <u>52 F10</u>	ELEV: <u>??</u>	N°1 post 706027	PAGE NO. <u>5</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS -GLATZ PROP.</u>	CLAIM NO. <u>706027</u>	BEARING <u>182° mag</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of	HOLE NO. <u>VHG 87-5</u>
DAY STARTED <u>16 Febr. 1987</u> DAY COMPL. <u>Febr. 21</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>		TOTAL DEPTH <u>469'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>GLATZ</u>	NTS <u>52F10</u>	ELEV: <u>??</u>	Nº1 post 706027	PAGE NO. <u>6</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
274.0	289.5		Zone of intense qtzvn stockwork in mafic flow or dike material (oldtimers "trap?")												
			Considerable alteration - silicification due to qtzvns and veinlets. In last 2 feet amount of qtzvning diminishes. Magnetite scattered throughout in fine disseminations. Only minor carbonatization. Developm. of lightgreen chlorite blebs; minor sericite. Qtzvns range from 1/2" to 2", some discrete, others contorted, convoluted and patchy; locally some feldspathization.												
BREAKDOWN INTERVALS:															
274.0	276.0		3 qtzvns 1/2" to 3" + minor feldspathization			R9502	2.0						trace		
276.0	279.0		two 2" to 4" qtzvns + vnlets			R9503	3.0						trace		
279.0	281.5		odd vnlets + magnetite			R9504	2.5						trace		
281.5	284.0		several white-grey 1" - 1 1/2" qtzvns			R9505	2.5						trace		
284.0	286.5		several 1/2" to 3/4" qtzvns.			R9506	2.5						trace		
286.5	289.0		very strong qtzvn stockwork in first foot			R9507	2.5						trace		
289.0	289.5		Silicification but no distinct qtzvns			R9508	.5						trace		

EXPLORATION LOG SHEET

PROPERTY VAN HORNE EXPLORATIONS -GLATZ PROP.		CLAIM NO. 706027	BEARING 182° mag	LAT: 2400 East	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of N°1 post 706027		HOLE NO. VHG 87-5
DAY STARTED 16 Febr. 1987 DAY COMPL. Febr. 21		J.V. NO. n.s.	ANGLE 45°	DEP: 1260 North			TOTAL DEPTH 469'
LOGGED BY J. Langelaar		GRID NO. GLATZ	NTS 52F10	ELEV: ??			PAGE NO. 7.

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
289.5	299.0	Mafic volcanics	- flow material. Odd qtz & qtzcarb vnlets slightly magnetic; odd speck Py													
299.0	300.6	Interbed of finegrained sediments, heavily sericitized; could be chemical seds; core angles @ 56°. Odd speck and cube of Py; Magnetite in fine dissemin. up to 7%!	check sample		R9509	1.6								trace		
300.6	± 335...	Mafic volcanics; massive & uniform - flows, locally odd amygdule; slightly magnetic; ½" grey-white qtzvn @ 320. May contain small interbeds of intermed. tuffs: difficult to establish!														
335..	338.0	Coarse to very coarse pyroclastics; odd speck Py														
338.0	340.2	Lapilli tuff, somewhat schistose														
340.2	346.0	Coarse pyroclastics														
NOTE: at 346'		SUSPECT LOST CORE OF 1 - 2 feet, which could have contained qtzvn as one chip left!!														
346.0	346.9	Schistose lapilli tuff; core angles @ 50°														
349.6	347.4	Qtzcarb vein; grey-white + tourmaline; Magnetite and odd Py + some Pb + coarse pyroclastics			R9510	.5								trace		

EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE EXPLORATIONS -GLATZ PROP.</u>	CLAIM NO. <u>706027</u>	BEARING <u>182° mag.</u>	LAT: <u>2400 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 164 ft east of and 360 ft south of	HOLE NO. <u>VHG 87-5</u>
DAY STARTED <u>16 Febr. 1987</u> DAY COMPL. <u>Febr. 21</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>1260 North</u>		TOTAL DEPTH <u>469'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>GLATZ</u>	ITS <u>52F10</u>	ELEV: <u>??</u>	N°1 post 706027	PAGE NO. <u>3</u>

FOOTAGE			Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								
From	To				Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag
347.4	348.5	LC	Coarse pyroclastics; suspect one foot of lost core												
348.5	351.7		3/4" grey/black/white qtzvn with minor tourmaline and specks of Pb?? This qtzvn subparallels whole core and sample covers LENGTH and NOT WIDTH				R9511	3.2					trace		
351.7	355.4		Mix of lapilli tuffs & flows; odd qtz and qtzcarb vnlets; weakly magnetic.												
355.4	433.1		Predom. coarse to very coarse pyroclastics; some angular fragments; small intervals of lapilli tuffs and minor flows or dikes. At 338 weak shear @ 47° with qtzvnlets over 6". At 388 1" qtzvn.												
		LC	Near 399' lost core of approx. 4 feet(two feet either side)												
		LC	Near 409' suspect lost core; grinding of quartz chip left - width??- sample at 408.8				R9512	??					trace		
		LC	Near 429' two feet of lost core.												
433.1	460.0		Basalt; grey/black, massive. From 451 - 454.2, two foot qtzvns, white & grey; cubic Py + coarse blebs + tourmaline.				R9513						trace		
			458.0 - 459.2 Interval with 7 1-5mm qtzvnlets				R9514	1.2					.04		

EXPLORATION LOG SHEET

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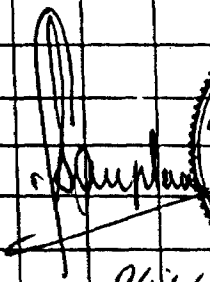
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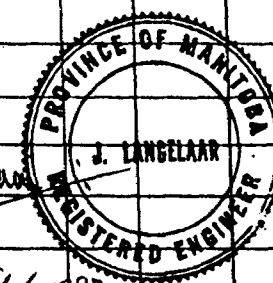
EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD EXPL. - GLATZ OPT.	CLAIM NO. 672028	BEARING 203° mag	LAT: 37.86 East	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 190 ft south & 70 feet west of N°1 672028	HOLE NO. VH8 87-6
DAY STARTED Febr. 23, 1987 DAY COMPL. Febr. 26	J.V. NO. n.a.	ANGLE 50°	DEP: 13.70 S		TOTAL DEPTH 393'
LOGGED BY J. Langelaar	GRID NO. -	NTS 52F10	ELEV: ?		PAGE NO. 1

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg.
			SUMMARY: This hole has been drilled underneath the LITTLE JUMBO SHAFT;												
			Predomin. rocktype is coarse to very coarse pyroclastic with 3 porphyritic intervals												
			from 133.2 - 140.2, 160.7 - 169.0 & 170.8 - 176.5.												
			Main concentration of quartz & quartzcarb. veins and veinlets occurs between 190.0 and 209.0												
			Amount of mineralization is minimal and restricted to odd specks/cubes of Pyrite, although												
0	10.0	Casing	dissemin. magnetite occurs.												
10.0	14.0	LC	Lost core												
14.0	37.2		Light green-grey very coarse pyroclastics; generally well rounded and elongated fragments of acid composition												
			some intervals display stretched fragments; fragments up to 5 cm in greatest length; well develop. chlorite in matrix; odd speck of Py												
37.2	44.7		Mafic flow with minor interbed of lapilli tuff @ 38.3 over 4"; weak schistosity @ 49° near 43'. weakly - moderately magnetic.												
44.7	60.1		Coarse fragments; some fragments subangular. Most fragments stretched resulting in schistosity @ 38°												
			Finely dissem. magnetite; odd qtz & qtzcarb veinlets												



April 6, 1987



EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD EXPL. - GLATZ OPT.</u>	CLAIM NO. <u>672028</u>	BEARING <u>203° mag.</u>	LAT: <u>37.86 East</u>	LOCATION OF D. DRILL HOLE	HOLE NO. <u>VHG 87-6</u>
DAY STARTED <u>Febr. 23, 1987</u> DAY COMPL. <u>Febr. 26</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>50°</u>	DEP: <u>13.70 S</u>	IN RELATION TO NEAREST	TOTAL DEPTH <u>393'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>-</u>	NTS <u>52F10</u>	ELEV: <u>?</u>	CLAIM POST: <u>190 ft south</u>	
				<u>& 70 feet west of N°1</u>	PAGE NO. <u>4</u>
				<u>672028</u>	

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EXPLORATION LOG SHEET

HOLE NO. VHG 87-6

1 TOTAL DEPTH 393'

PAGE NO. 5.

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EXPLORATION LOG SHEET

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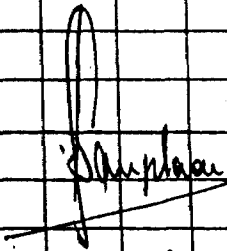
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PROPERTY <u>VAN HORN GOLD - BONNIE/REDBELL</u>	CLAIM NO. <u>K533394</u>	BEARING <u>024° mag</u>	LAT: <u>48°00' West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 260' west of and 270' north of N°3 of K533394	HOLE NO. <u>VHBR 87-8</u>
DAY STARTED <u>Febr. 17, '82</u> DAY COMPL. <u>Febr. 19</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>20+28 North</u>		TOTAL DEPTH <u>306'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52F10</u>	ELEV: <u>? (high)</u>		PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
			SUMMARY: Rock types encountered in this drill hole : mix of lapilli tuffs, minor felsics and mafic flows; small interbed of sediments - probably chemical. Extension of GOOD LUCK MINE - if encountered - not impressive: 169.5 - 170.5 characteriz. by 3" qtzvn, assaying trace. Best assay .02 oz/ton Au in schistose material near 187.5												
0	6.0	CASING.													
6.0	64.0	Intermed - mafic grey-green tuffs. May contain interbedded intermed. flows between 23.3 and 30.8 (massive, uniform & textureless). Some sections are highly chloritic. Finely dissem. Magnetite in small amounts (=or less than 1%) Odd speck and cube of Py. Calcite vning cutting core at various angles. At 23.1 & 27.1 1/2" qtzvnlet. Core angles @26° at 12' and @ 44° at 32'.													
64.0	# 86.0	Var. intermed. - mafic tuffs. Contains light-grey color. section of more felsic composition with													



April 6, 1987



EXPLORATION LOG SHEET

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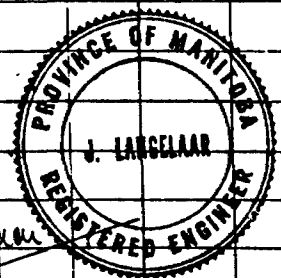
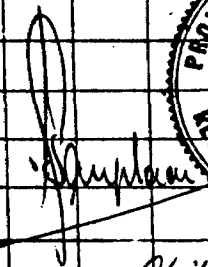
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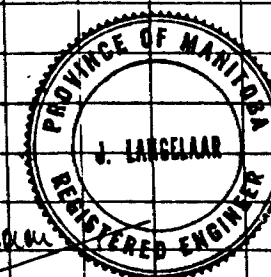
EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of</u> and <u>130' north of N°</u>	HOLE NO. <u>VF38-9</u>
DAY STARTED <u>Febr. 21 '87</u>	DAY COMPLETED <u>Febr. 23</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>	CLAIM POST: <u>460' west of</u> and <u>130' north of N°</u>	TOTAL DEPTH <u>406'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52F40</u>	ELEV: <u>?</u>	2 of 533391	PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
		SUMMARY:	Rocktypes encountered consist of lapilli tuffs, intermed. flows or dikes, mafic dikes, minor rhyolite and quartz feldspar porphyry. Areas of intense silicification and variable feldspathization all assayed "TRACE"												
0	26.0	Casing													
26.0	28.0	Intermed pyroclastics, lightgreen/grey, some silicification; core starts with several qtzvnlets with coarse cubic Py (over 2")	minor feldspathization												
28.0	29.7	Intermed. flow - massive & uniform; one qtzvnlet with some feldspathization; odd Py check	sample	A8571	1.7										trace
29.7	31.3	Intermed. pyroclastics; fragment size from 3mm to 30 mm: coarser at "top" of the hole than bottom-some "graded bedding".													
31.3	58.6	Predom. uniform, massive lightgreen/grey	intermed. flow												



April 4, 1987



April 6, 1987

EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDELMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of and 130' north of N°</u>	HOLE NO. <u>VHBR-9</u>
DAY STARTED <u>Febr. 21 '87</u> DAY COMPL <u>Febr. 23</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>		TOTAL DEPTH <u>406'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52P40</u>	ELEV: <u>?</u>	<u>2 of 533391</u>	PAGE NO. <u>2</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of</u> and <u>130' north of N°</u>	HOLE NO. <u>VHBR-9</u>
DAY STARTED <u>Febr. 21 '87</u> DAY COMPL <u>Febr. 23</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>		TOTAL DEPTH <u>406'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52F40</u>	ELEV: <u>?</u>	<u>2 of 533391</u>	PAGE NO. <u>3</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
102.3	104.9	Lightly sheared	intermed pyroclastics with consid.												
		silicification and 1/2' of grey/white Qtzvn + tourmal.													
		at 103' and 2" Qtzvn @ 104'; Py in specks &													
		streaklets: check sample			A8574	2.6						trace			
104.9	110.8	Slightly sheared intermed. tuffs & pyroclastics; odd													
		speck of Py. Last foot (109.8 - 110.8) intensely													
		carbonatized + epidote with carb vning crosscutting													
		and subparallel core													
110.8	114.5	Intermed. massive - uniform flow, slightly magnetic,													
		odd speck & cube of Py													
114.5	± 117	Intermed flow odd cube of Py; bottom etc with													
		next section gradational.													
± 117	121.6	Lightgrey/green intermed. lapilli tuff; dissem.													
		magnetite. Felsite "vein" -dikelet - of 2" @ 118.6													
		contacts @ 28°. Odd speck and cube of Py throughout													
121.6	124.3	Intermed - felsic flow; massive uniform	strongly												
		magnetic													
124.3	126.7	Intermed. lapilli tuff; epidotized in places; contacts	very sharp; minor calcite												

NOTE: ARE THE INTERMED. FLOWS
NOT FELSIC DIKES DUE TO VARYING
ANGLES OF CONTACTS.

EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of</u> and <u>130' north of N°</u>	HOLE NO. <u>VHRR-9</u>
DAY STARTED <u>Febr. 21 '87</u> DAY COMPL <u>Febr. 23</u>	J.V. NO. <u>n.e.</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>	TOTAL DEPTH <u>406'</u>	
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52P10</u>	ELEV: <u>?</u>	<u>2 of 533391</u>	PAGE NO. <u>4</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of</u> and <u>130' north of N°</u>	HOLE NO. <u>VHBR-9</u>
DAY STARTED <u>Febr. 21 '87</u> DAY COMPL <u>Febr. 23</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>		TOTAL DEPTH <u>406'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52P10</u>	ELEV: <u>?</u>	<u>2 of 533391</u>	PAGE NO. <u>5</u>

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>	CLAIM NO <u>K533391</u>	BEARING <u>182° mag</u>	LAT: <u>42° West</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>460' west of</u> <u>and 130' north of N°</u>	HOLE NO. <u>VHBR-9</u>
DAY STARTED <u>Febr. 21 '87</u> DAY COMPL <u>Febr. 23</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>32+36 N</u>		TOTAL DEPTH <u>406'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>east</u>	NTS <u>52P10</u>	ELEV: <u>?</u>	2 of 533391	PAGE NO. <u>?</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
cont'd	286.0	qtzvns and 2 - 4" qtz patches. Py content variable, locally up to 4% over 1 1/2" - this sample may contain Fuchsite!													
286.0	288.0	Silicifi. tuffs; few 3-5mm qtzvnlets; feldspathiz. increase locally in Py to 4% - overall		2%	A8586	2.0						trace			
288.0	290.3	Predom. irregular greywhite qtz: contorted and convoluted through core; intense silicific.; Py overall contains grains of Magnetite and some Fuchsite??		2%	A8587	2.3						trace			
290.3	292.0	Silicifi, lap. tuff with several 1/2" qtzvnlets; odd Py			A8588	1.7						trace			
292.0	295.0	Highly silicifi. material with several qtz patches of up to 6" and qtzvns - 60% of this sample is qtz minor Fuchsite; magnetite grains within qtz			A8589	3.0						trace			
295.0	296.0	Predom. greywhite qtzvn with highly silicifi. mat: Magnetite grains and odd Py			A8590	1.0						trace			
296.0	297.7	Highly silicified rock with 30% white/grey qtzvns 1/4" to 1" wide; sheared at bottom contact @ 31° Py variable; locally up to 3% over 1/2" and overall minor sericitization in sheared portion.		1%	A8591	1.7						trace			

EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

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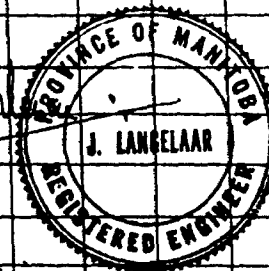
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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>		CLAIM NO. <u>K 533307</u>	BEARING <u>178° mag.</u>	LAT: <u>35.96 W.</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 200' south and 290' east of N°3 of K533307		HOLE VHR 87-10	
DAY STARTED <u>Febr. 19 '87</u> DAY COMPL. <u>Febr. 20</u>		J.V. NO. <u>n.a.</u>	ANGLE <u>50°</u>	DEP: <u>0+62 N</u>			TOTAL DEPTH <u>307'</u>	
LOGGED BY <u>R. Van Enk</u>		GRID NO. <u>east</u>	NTS <u>52F10</u>	ELEV: <u></u>			PAGE NO. <u>1</u>	

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
6	9.0	Casing														
9.0	49.7	Intermed. tuff; grey/green, med to coarse grained with short sections of lapilli tuff; locally vague banding; moderately foliated & schistose core angles @ 40° - 45°														
		18.0 - 19.0 carbonatized & slightly silicif. tr	Py		A8547	1.0							trace			
		27.5 - 29.5 as above			A8548	2.0							trace			
49.7	83.0	Quartz Porphyry; med - coarse grained grey/pink														
		74.0 - 75.0 few narrow qtzvnlets 1/4" - 1/2" angles	at various		A8549	1.0							trace			
83.0	88.6	Mafic tuff; med - strongly foliated; green/dkgreen medium to coarse grained; foliated @ 35 - 40°														
88.6	92.6	QFP; coarse grained; grey/pink wk foliated														
		88.6 - 89.7 wk Py enrichment in contact zone	1-2%		A8550	4.0							trace			
92.6	109.7	Mafic tuff, as 83.0 - 88.6														
109.7	149.0	Quartz Porphyry - Quartz diorite; grey/pink. coarse- grained with phenocr. in the order of a few mm in porphyritic sections slightly foliated to massive. qtzvnlets & vns 2mm - 2", 1 to 2 per foot at various														



DIP TESTS ON PAGE

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EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD - BONANZA/REDEEMER</u>		CLAIM NO. <u>K 533307</u>	BEARING <u>178° mag.</u>	LAT: <u>35.96 W.</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 200' south and 290' east of N°3 of K533307		HOLE VHBR <u>87-10</u>
DAY STARTED <u>Febr. 19'87</u> DAY COMPL. <u>Febr. 20</u>		J.V. NO. <u>n.a.</u>	ANGLE <u>50°</u>	DEP: <u>0+62 N</u>			TOTAL DEPTH <u>307'</u>
LOGGED BY <u>R. Van Enk</u>		GRID NO. <u>east</u>	NTS <u>52F10</u>	ELEV: _____			PAGE NO. <u>2</u>

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au	oz/ton Ag	Avg
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
cont'd	149.0		core angles but mostly greater than 70°; some of the vns accompanied by narrow alteration bands (brown)													
		118.5 - 119.2	2" white glassy Qtz + altered wallrock			A8551	.7							trace		
		126.0 - 127.5	several Qtz vnlts, narrow band of alteration													
						A8552	1.5							trace		
149.0	163.7		Mafic lavas; finegrained, dk green, slightly foliat. with carbonate "phenocrysts" - probably vacuole filling - of a few mm's													
163.7	200.9		Quartz Porphyry to Qtz Diorite; pink/grey coarse grained massive to slightly foliated; trace of Py													
		182.0 - 183.0	several irregular Qtz vnlts			A8553	1.0							trace		
		199.9 - 200.9	silicification + Qtz flooding			A8554	1.0							trace		
200.9	223.3		Mafic lava; dk green finegrained & massive													
		220.2 - 221.4	Qtz vns + wallrock			A8555	1.2							trace		
		222.5 - 223.3	Qtz vns + wallrock inclusions			A8556	.8							trace		
223.3	266.5		QFP to Qtz Diorite; bottom section QFP.													
		225.2 - 226.2	Qtz, grey and white + some Qtz flooded wall- rock			A8557	1.0							trace		

EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD - BONANZA/REDEEMER						CLAIM NO.K 533307		BEARING 178° mag.		LAT: 35.96 W.		LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 200' south and 290' east of N°3 of K533307				HOLE VHBR 87-10			
DAY STARTED Febr. 19'87 DAY COMPL. Febr. 20						J.V. NO. n.a.		ANGLE 50°		DEP: 0+62 N						TOTAL DEPTH 307'			
LOGGED BY R. Van Enk						GRID NO. east		NTS 52F10		ELEV:						PAGE NO. 3			
FOOTAGE			Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA										oz/tan Au	oz/tan Ag	Avg
From	To	Type			%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb							
266.5	276.3		Mafic tuff; dkgreen, fine to coarse grained, in part breccia.																
			269.1 - 271.0 tuff breccia with 2%-50% Py, seams and disseminated semi-massive locally			A8558	1.9								trace				
276.3	297.4		QFP, grey/pinkish-grey; med to coarse grained; fine carb veinlets 1mm or less at various core angles																
			291.7 - 292.3 2" qtz + wallrock, Cp blebs			A8559	.6								trace				
297.4	307.0		Mafic tuff or lava; dkgreen to greengreen; fine to med, grained; carb-rich.																
			297.4 - 297.9 3" qtz + tourmaline + wallrock (tuff)			A8560	.5								trace				
			END OF HOLE																
			CASING PULLED.																
			DIPTTEST @ 306' - corrected at 46°																

DIP TESTS ON PAGE .3.....

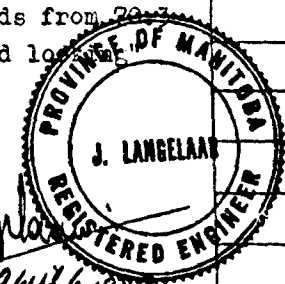
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DRYDEN - Ontario. ph: 807-937-5085

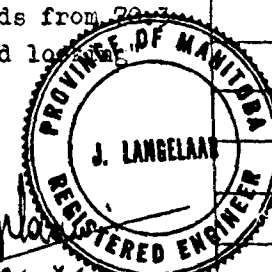
EXPLORATION LOG SHEET

PROPERTY <u>Bonanza-Redeemer (Van Horne Gold)</u>	CLAIM NO. <u>K 555598</u>	BEARING <u>178°</u>	LAT: <u>16.00 E</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>80 ft. E and 350 ft. S of no. 4 post</u>	HOLE NO. <u>VHBR-87-12</u>
DAY STARTED <u>febr. 14, 1987</u> DAY COMPL. <u>febr. 15</u>	J.V. NO. _____	ANGLE <u>-45°</u>	DEP: <u>8.64 N</u>		TOTAL DEPTH <u>305 ft.</u>
LOGGED BY <u>R. van Eek</u>	GRID NO. _____	NTS _____	ELEV: _____		PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	MINERALIZATION			Sample		oz/ton	oz/ton	Avg.
From	To		Type	%				Au	Ag	
0	6.5	<u>overburden</u>								
6.5	53.8	<u>felsic to intermediate tuff</u> grey green; fine to medium grained; weakly to moderately foliated; few weak- ly silicified and/or carbonatized sections				8522	36.6-38.6 slightly silic. with	.01		
						8523	two irregular qtz veinlets 44.9-46.0 carbonatized	trace		
53.8	56.0	<u>mafic tuff</u> dark green; fine grained; massive								
56.0	77.5	<u>felsic to intermediate tuff</u> as 6.5-53.8				8524	69.7-71.7 strongly silicified	trace		
							irregular qtz vein and qtz flooding;py pods from 20-30			
77.5	113.2	<u>intermediate to mafic tuff</u> green to dark green; very fine to medium grained; some coarse fragmental sections; fine grained parts schistose and chloritic; few thin sugary qtz/carb veinlets at various core angles					70.8 (5%); "good looking"			
113.2	145.1	<u>felsic tuff</u> grey to dark grey; medium to very fine grained; locally cherty especially in				8525	140.0-141.5 2 irregular qtz	.01		
							veinlets;py(1/2-1%) diss and locally on joints and fractu- res(up to 5%)			



April 6, 1987



EXPLORATION LOG SHEET

PROPERTY _____	CLAIM NO. _____	BEARING _____	LAT: _____	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST:	HOLE NUMBER-87-12
DAY STARTED _____ DAY COMPL. _____	J.V. NO. _____	ANGLE _____	DEP: _____		TOTAL DEPTH _____
LOGGED BY _____	GRID NO. _____	NTS _____	ELEV: _____		PAGE NO. 2

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EXPLORATION LOG SHEET

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DIP TESTS ON PAGE ..3.....

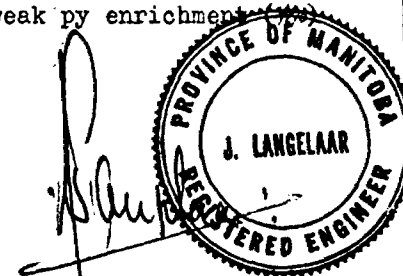
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EXPLORATION LOG SHEET

PROPERTY <u>Bonanza-Redeemer (Van Horne Gold)</u>	CLAIM NO. <u>K558598</u>	BEARING <u>178°</u>	LAT: <u>16° East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>80 ft. E and 90 ft. S</u> of no. 4 post	HOLE NO. <u>VEBA-87-13</u>
DAY STARTED <u>febr. 12, 1987</u>	DAY COMPL. <u>febr. 13</u>	ANGLE <u>-45°</u>	DEP: <u>10.91 N</u>		TOTAL DEPTH <u>318 ft.</u>
LOGGED BY <u>R. van Enk</u>	GRID NO. _____	NTS <u>52F/10</u>	ELEV: _____		PAGE NO. <u>1</u>

FOOTAGE		Rock Classification	MINERALIZATION			oz/ton Au	oz/ton Ag	Avg.
From	To		Type	%	Sample			
0	5.5	<u>overburden</u>						
5.5	98.9	<u>rhyolite/rhyodacite</u> dark grey; fine grained; occasional nar- row quartz veinlets at core angles of 35-60°, widths less than ½"			8501	26.7-28.6 several narrow qtz veinlets	trace	
					8502	48.6-49.2 ½" qtz vein with py	trace	
					8503	76.0-77.0 ½" qtz/chlorite vein	trace	
					8504	80.0-81.6 3 narrow qtz/chlorite veins (less than ½")	trace	
98.9	119.2	<u>felsic tuffs</u> grey; fine to medium grained; with cherty sections; locally slightly foliated at core angles of 60-65°; upper contact at core angle of 30°			8505	98.9-99.7 slightly silic. with 2 narrow qtz stringers	trace	
					8506	111.7-113.7 silic., tr. py, qtz vein from 113.3-113.6	trace	
					8507	115.5-117.4 silic. section, weak py enrichment	trace	
119.2	128.7	<u>felsic tuff/chemical sediment</u> grey to buff; very fine grained to amorphous						
128.7	137.5	<u>felsic to intermediate tuff</u> grey; fine to medium grained						
137.5	141.5	<u>felsic tuff/chemical sediment</u> grey to buff; very fine to amorphous; top portion of section carbonatized and			8508	137.5-141.2	trace	



April 6, 1987

PROPERTY _____
DAY STARTED _____ DAY COMPL. _____
LOGGED BY _____

CLAIM NO. _____
J.V. NO. _____
GRID NO. _____

BEARING _____
ANGLE _____
NTS _____

LAT: _____
DEP: _____
ELEV: _____

LOCATION OF D. DRILL HOLE
IN RELATION TO NEAREST
CLAIM POST:

HOLE NO. V-100-37-43
TOTAL DEPTH _____
PAGE NO. 2

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FOOTAGE		Rock Classification	MINERALIZATION			oz/ton Au	oz/ton Ag	Avg.
From	To		Type	%	Sample			
137.5	141.5	cont.						
		py enriched(4-2%); several narrow qtz veins (1/4-1"); locally talcose						
141.5	169.8	<u>felsic to intermediate tuff</u> as 128.7-137.5						
169.8	182.8	<u>felsic to intermediate tuff</u> as 128.7-137.5 but locally silicified, weakly carbonatized and py enriched			8509 8510 8511	171.7-173.7 altered section 177.0-179.0 altered section 181.8-182.8 altered section	trace trace trace	
182.8	189.8	mafic tuff dark green; medium grained; top contact at core angle of 45°						
189.8	206.8	<u>felsic tuff</u> grey to buff; fine to medium grained; in places banded; numerous thin (1-2mm.) white qtz/carb veinlets at core angles of 45°; locally carbonatized and py enriched			8512 8513 8514	189.8-192.0 locally silic., narrow qtz/carb veinlets, top part py enriched(1%), sericitic 196.7-197.7 weakly carb., 1/2% py 204.6-206.8 strongly silicified carbonate veinlets, 1-2% py	trace trace trace	



ADDENDUM TO: REPORT ON DIAMOND DRILLING

VAN HORNE GOLD EXPLORATIONS LTD.

GLATZ & REDEEMER-BONANZA PROPERTIES.

VAN HORNE TOWNSHIP - N.W.Ontario.

January - February 1987.

As part of the proposed 13-hole diamond drill programme on the Glatz and Bonanza-Redeemer properties, drilled during January and February 1987, the drill log for Hole VHG 87-4 is enclosed: this hole had been omitted from the final report, dated April 6, 1987.

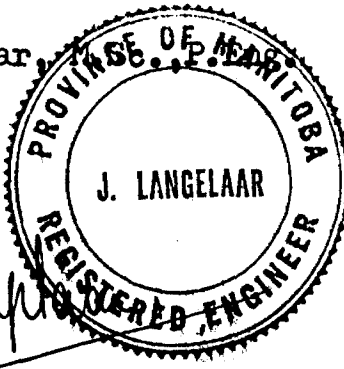
On account of this hole, the footage reported previously, is increased by 359 feet for hole VHG 87-4, bringing the total of the programme to 4772 feet (in 12 holes.)

Hole VHG 87-4 was drilled under one of the VANLAS shafts and intersected among others a highly silicified zone between 234.0 and 258.9, situated within felsic to intermediate tuffs and coarse to very coarse pyroclastics.

A total of 31 samples were taken for assaying.

Dryden, April 15, 1987

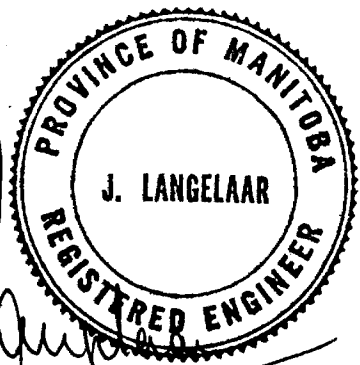
J. Langelaar,

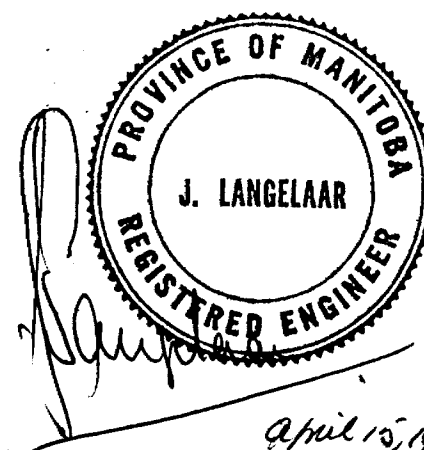
EXPLORATION LOG SHEET

PROPERTY <u>VAN HORNE GOLD EXPLORATION INC.</u>	CLAIM NO. <u>N 44 of 1/2 lot 10, con. 1</u>	BEARING <u>181° mag</u>	LAT: <u>16.00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: <u>650' east of and 105' south of N°3 of claim 590979</u>	HOLE NO. <u>EG 87-4</u>
DAY STARTED <u>Febr. 7, 1987</u> DAY COMPL. <u>Febr. 14</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>8+11 N.</u>	TOTAL DEPTH <u>359'</u>	
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>-</u>	NTS <u>52F10</u>	ELEV: <u>-</u>	PAGE NO. <u>1</u>	

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/ton Au	oz/ton Ag	Avg
		SUMMARY:	Lapilli tuffs and coarse to very coarse pyroclastics are the dominant rocktypes in this hole.												
			A highly silicified zone occurs between 234.0 and 258.6 with the following assay results:												
0	5.0	Casing													
5.0	44.0	Mix of felsic to intermed. lapilli tuff & coarse pyroclastics with fragments up to 7 cm. Virtually no qt/calcite nor calcite veinlets; odd speck of Py, some coarse cubic Py, but overall considerably less than 1%. Variable amounts of finegrained disseminated Magnetite scattered throughout.													
44.0	55.8	Basic dike; grey black, finegrained; top contact at 43°; odd cube and speck of Py and various amounts													



April 15, 1987



DIP TESTS ON PAGE

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EXPLORATION LOG SHEET

PROPERTY VAN HORNE GOLD EXPLORATION INC.		CLAIM NO. _____	BEARING 181° mag	LAT: 16.00 East	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 650' east of and 105' south of N°3 of claim 590979		HOLE NO. VHG 87-4	
DAY STARTED Febr. 7, 1987 DAY COMPL. Febr. 14		J.V. NO. n.a.	ANGLE 45°	DEP: 8+11 N.			TOTAL DEPTH 359'	
LOGGED BY J. Langelaar		GRID NO. -	NTS 52810	ELEV: -			PAGE NO. 2	

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA								oz/ton Au.	oz/ton Ag	Avg.
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb				
cont'd	55.8	of Magnetite. At 47.0 a .3' qtzcarb vein with minor														
		Py and Magnetite up to 3%; contains "schlieren" of														
		emerald green mineral: questionable fuchsite??														
		check sample at 47 over .3'			R9469	.3							trace			
55.8	71.2	Predom. coarse intermed. pyroclastics; slight														
		increase in Py content between 59.0 - 61.0			R9470	2.0							trace			
		Finely disseminated Magnetite scattered throughout														
71.2	95.6	Finegrained diorite sill or dike; slightly magnetic														
		: massive & uniform. Characterized by numerous qtz &														
		qtz/carb veinlets crosscutting core at various														
		angles. Top and bottom contacts sharp and delineated														
		by 1" to 2" qtzcarb vns.														
		From 91 - 94, distinct brownish-red feldspathization														
		on either side of qtzcarb veining, generally with														
		tourmaline and fuchsite; Py odd speck and scattered;														
		following are checksamples:														
		79.0 - 80.5 2" & 4" qtzvns + coarse tourmaline, odd Py														
		and magnetite			R9471	1.5							trace			

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DIP TESTS ON PAGE

PROPERTY <u>VAN HORNE GOLD EXPLORATION INC.</u>	CLAIM NO. _____	BEARING <u>181° mag</u>	LAT: <u>16.00 East</u>	LOCATION OF D. DRILL HOLE IN RELATION TO NEAREST CLAIM POST: 650' east of and 105' south of N°3 of claim 590979	HOLE NO <u>VHG 87-4</u>
DAY STARTED <u>Febr. 7, 1987</u> DAY COMPL. <u>Febr. 14</u>	J.V. NO. <u>n.a.</u>	ANGLE <u>45°</u>	DEP: <u>8+11 N.</u>		TOTAL DEPTH <u>359'</u>
LOGGED BY <u>J. Langelaar</u>	GRID NO. <u>-</u>	NTS <u>52F10</u>	ELEV: <u>-</u>		PAGE NO. <u>3</u>

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EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

PAGE NO. 6.

FOOTAGE		Rock Classification	Other Features - Veins, Fractures, Foliation, etc.	MINERALIZATION		ASSAY DATA									
From	To			Type	%	Sample	Width	% Ni	% Cu	% Zn	% Fe	% Pb	oz/Ton Au	oz/Ton Ag	Avg.
244.8	245.8	One foot of material left: suspect that feet may be missing. Intensely rusty, highly silic. mat. followed by decomposed crumbly + muddy. Odd Py cube and minor Magnetite		several											
	L/C??			highly silic.											
						R9481	1.0								
245.8	249.4	Highly silic. hematitic material. Bifurcating qtz vn 1 - 1½" @ 246.6. Chlorite rich at top contact and several ½" to ¾" irregul. qtzvns over 6" near 250. Coarse cubic Py near qtzvns. Finely dissem. magnetite. One fleck of V.G?? in qtzvn near 247.6													
						R9482	3.6								
249.4	251.2	Hematite-rich silic. material with ½" subparall. to core qtzvn magnetite ; Py odd speck & cube													
251.2	252.9	As above; less pinkish-red; brecciated with grey qtz near 251.8 over 6"													
		Some sections highly carbonatized; odd Py													
252.9	254.2	Pinkish grey finegrained qtz (porphyritic??) Magnetite finely disseminated; odd Py in bleb & cube; 3" grey qtzvn @ 253.5													
						R9485	1.3								
254.2	255.1	White-grey qtzvn; could contain minor sphalerite				R9486	.9								

DIP TESTS ON PAGE

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EXPLORATION LOG SHEET

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EXPLORATION LOG SHEET

PAGE NO. 8.

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Ministry of
Natural
Resources

Report
of Work

Assess
CONTACT DAY 6
VAN HORNE TWP 1.



52F10NW0402 15 VAN HORNE

900

74-84 The Mini

Name and Postal Address of Recorded Holder:

Van Horne Gold Exploration Inc.

T 1054

1003 - 34 King St. East, Toronto, Ontario, M5C 1E5

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
1770	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only) ☐ Manual Work ☐ Shaft Sinking Drifting or other Lateral Work. ☐ Compressed Air, other Power driven or mechanical equip. ☐ Power Stripping ☒ Diamond or other Core drilling ☐ Land Survey	K	590558	105	K	672567	105			
		590559	105		706027	105			
		590561	120		672025	105			
		590562	120		672026	105			
		590563	120		672027	120			
		590978	105		672028	120			
		590979	105		672029	120			
		590980	105		672030	105			

All the work was performed on Mining Claim(s): K672567, 706027, 672028

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Contractor - Midwest Diamond Drilling, Winnipeg, Manitoba
Langley Diamond Drilling, Brampton, Ontario

Diamond Drilling Machine - BBSI

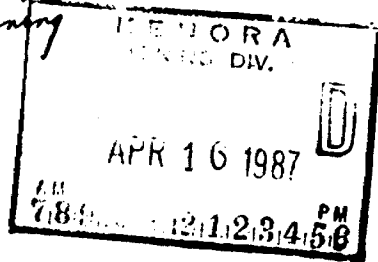
Core Size - AQ

Geologist in Charge - J. Langelaar, 3 Bedworth Rd., Dryden, Ontario, P8N 2Y4

Number of Holes - Five (5)

Footage - 2,477.

1770' used 707' remaining
814' on VH6-87-5
393' " VH6-87-6



VHG #1 - K672567 549'
VHG #2 - K672567 567'
VHG-87-3 - K. 672567 499'
VHG-87-5 - 706027 469'
VHG-87-6 - K. 672028 393'
2477'

Date of Report

April 6/1987

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

H.J.Hodge, P.Eng. 1003 - 34 King St. East, Toronto, Ontario M5C 1E5

Date Certified

April 13, 1987

Certified by (Signature)

Table of Information/Attachments Required by the Mining Record

Type of Work	Specific Information per type	Other Information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.		
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

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