



TOWNSHIP: Van Horne

REPORT No.: 13

WORK PERFORMED BY: Van Horne Gold Exploration Inc.

CLAIM No.	HOLE No.	FOOTAGE	DATE	NOTE
к 533304	1	206	Nov/80	(1)
558585	1 2 3 4 5 6 7 8 9	256	Nov/80	(1)
55 <b>8587</b>	3	362	Nov/80	(1)
558584	4	206	Nov/80	(1)
	5	206	Nov/80	(1)
	6	300	Nov/80	(1)
	7	206	Nov/80	(1)
	8	106	Nov/80	(1)
	9	206	Nov/80	(1)
	10	306	Nov/80	(l)
	11	406	Nov/80	(1)
	12	127	Nov/80	(1)
	13	200	Nov/80	(1)
	14	156	Nov/80	(1)
	15	201	Dec/80	(1)
	16	154	Dec/80	(1)
	17	301	Dec/80	(1)
	18	155	Dec/80	(1)
	19	184	Dec/80	(1)
	20	356	Dec/80	(1)
	21	207	Dec/80	(1)
	22	352	Dec/80	(1)
	23	106	Dec/80	(1)
	24	176	Dec/80	(1)

Notes:

(1) #69-83

### REPORT on

# DIAMOND DRILLING PROGRAM

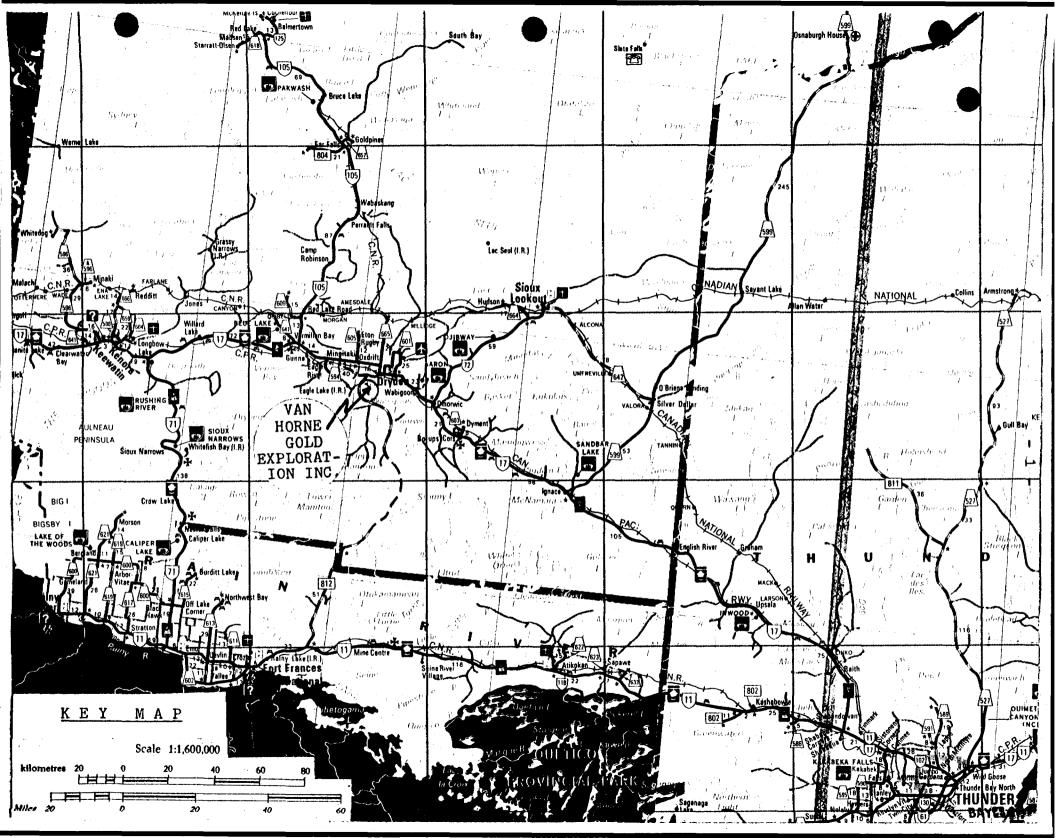
# VAN HORNE GOLD EXPLORATION INC.

Dryden Area

Province of Ontario

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#### INTRODUCTION

A number of gold-bearing quartz veins on the property were found and worked in the early years of this century.

About eleven shafts were sunk, and some limited gold production was achieved from a stamp mill.

At the time the veins were not economic, and by 1926 all work had stopped.

At present gold prices and operating conditions, the veins warrant another look. This report describes the results of a diamond drilling program carried out in November and December, 1980 on the two principal veins, known as the Redeemer and Bonanza veins.

The drill hole results are described in this report; and the Drill Hole Plans, Logs, Vertical Sections, Sample Lists, and Longitudinal Sections are included either in the report or in Appendices One to Three.

#### LOCATION and ACCESS

The property is located some 5 miles SSW of the town of Dryden in Northwestern Ontario. Dryden is located some 210 miles west of Thunder Bay, Ontario, and some 200 miles east of Winnipeg, Manitoba. Dryden is served by daily airline flights from Winnipeg and Toronto (and Thunder Bay), and also by daily Canadian Pacific Railway passenger and freight trains, and by five-times-daily bus service on TransCanada Highway No.

#### LOCATION and ACCESS (cont'd)

Dryden is the site of an expanding pulp mill, as well as a tourist centre, and most of the useful service facilities such as machine shops, motels, electric power lines, gas pipelines, building and trucking contractors are available.

The property is readily reached from Dryden by means of Highway 812 and all-weather farm roads to within 2 miles of the Redeemer shaft. The last two miles is navigable by car in good weather. The total road distance from Dryden to the Redeemer shaft is  $10\frac{1}{2}$  miles (17 km).

#### CLAIM DETAILS

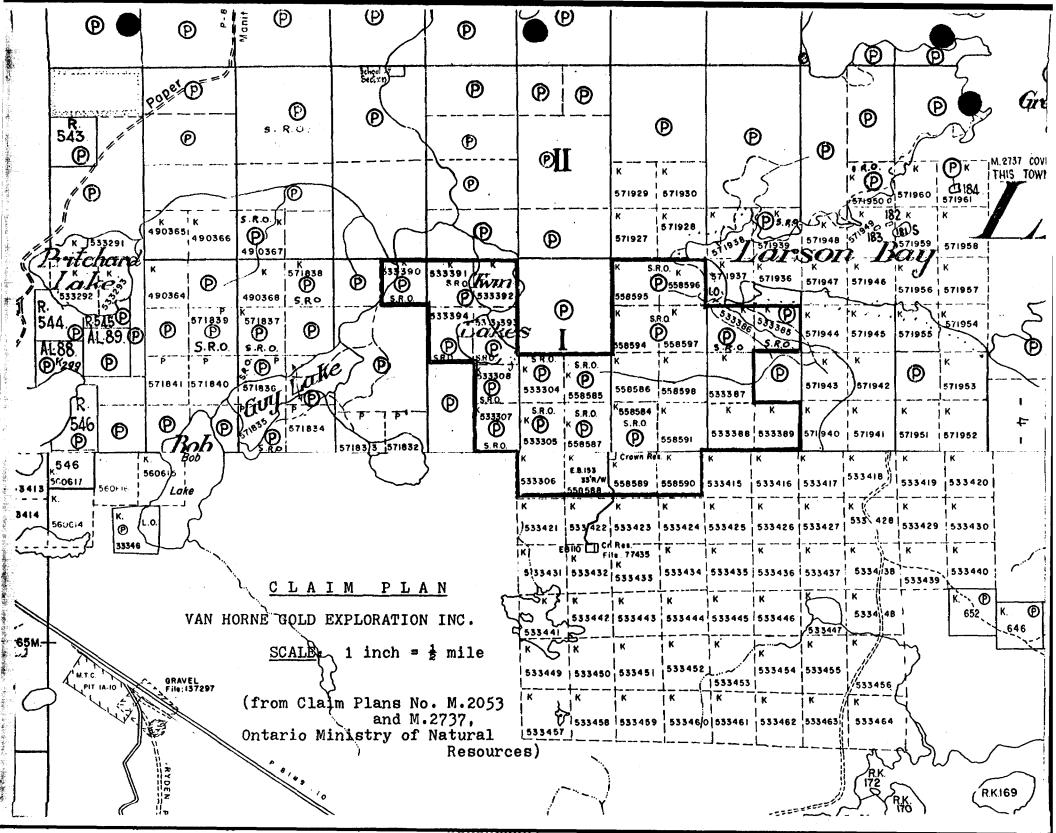
The property contains 28 contiguous mining claims located in Lots 5,6,7,8, and 9, Concession 1, Van Horne Township, and in the Area of Contact Bay, both in the Kenora Mining Division, Province of Ontario.

The claim numbers are:

K 533304 to 533308 - 5
K 533385 to 533394 - 10
K 558584 to 558591 - 8
K 558594 to 558598 - 5
Total Claims ..... 28

The locations of the individual claims are shown on the Claim Plan on the following page, and also on the Geological Map in the Map Pocket.

All the claims were recorded on June 24th, 1980, and 20 days work will be required before June 24, 1981, to keep them in good standing.



#### GENERAL GEOLOGY

The property has not yet been mapped in detail. The Geological Map included in the Map Pocket of this report is based upon several published maps, chiefly Map 50e of the Ontario Department of Mines, 1941, by J. Satterly.

The volcanic rocks on the property are largely intermediate to basic andesites. Acid volcanics occur intercalated through the andesites. Quartz porphyry dikes intrude the volcanics, as well as more basic dikes, and a late Keweenawan diabase dike is known to occur near the southwest corner of Van Horne Township.

The property lies near the western end of the Wabigoon sub-province of the Ontario section of the Canadian Precambrian Shield. The Wabigoon belt is made up predominantly of Archean volcanic rocks. The English River sub-province, composed mainly of clastic sedimentary and granitoid rocks, lies some 3 miles north of the property, and the contact is marked by a major fault, called the Wabigoon fault. This fault is accompanied by intense shearing and carbonatization of the adjacent volcanic rocks.

The rocks encountered by the present drill holes were largely andesites, andesite fragmentals, andesite tuff breccias, rhyodacites, and diorite. Lesser felsic and porphyry dikes were also met.

#### HISTORY

The known data on the Bonanza and Redeemer veins can be summarized as follows:

#### BONANZA

Gold occurs in a sugary quartz vein, along with minor pyrite, galena, sphalerite, and chalcopyrite. The vein varies in width from 2 inches to 20 inches. The vein has been traced for 600 feet of length.

A shaft was sunk in 1919, and 244 ounces of gold were recovered at the nearby Redeemer mill from 1206 tons milled. Work stopped about 1926.

#### REDEEMER

Gold occurs in a vein zone which varies from 2 feet to 12 feet in width.

A 9' x 6' vertical shaft was put down to 235 feet about 1904, and some 300 feet of drifting was done on two levels. A 10-stamp mill was built, and 359 ounces gold were recovered from 650 tons milled. The second level is reported to average 0.77 ounces gold across a 3 foot width, from 90 to 178 feet west of the shaft. Work stopped about 1908.

There are no records of any further work being done until the present drilling program.

#### DIAMOND DRILLING PROGRAM

Eleven drill holes were put down on the Redeemer Vein, and thirteen holes on the Bonanza Vein, during November and December, 1980. The Redeemer holes totalled 2,766 feet, and the Bonanza holes totalled 2,675 feet, for an overall total of 5,441 feet.

#### DIAMOND DRILLING PROGRAM (cont'd)

The drilling was done by Canadian Longyear Limited, in an efficient manner.

All casings have been pulled, and hole markers have been prepared for establishing in the spring after the snow is gone.

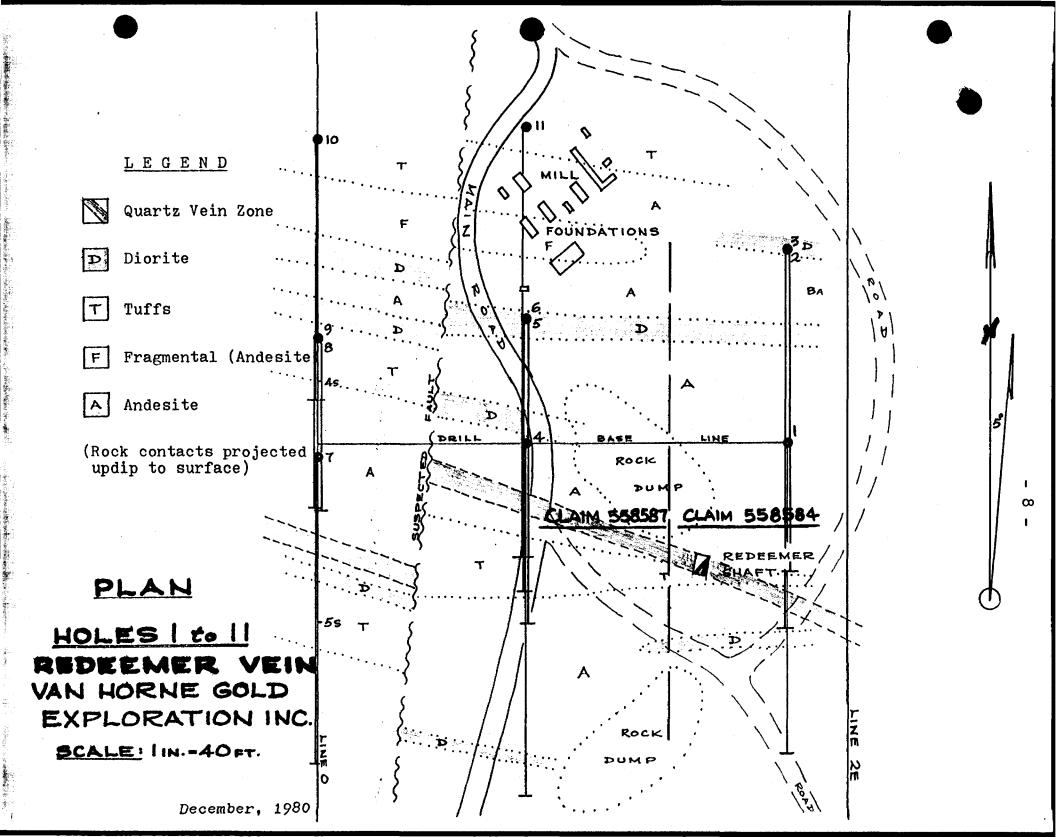
The core is stored in a camp building on the nearby Bobay farm.

#### RESULTS of DRILLING

All the eleven holes on the <u>Redeemer vein</u> cut low gold values only, as shown on the accompanying Vertical and Longitudinal Sections. The Redeemer vein was cut in nine of the eleven holes, with vein core lengths of from 2.0 to 20.0 feet.

As shown on the Plans and Sections, the vein and its host rocks appear to have been displaced by faulting. The host rocks are largely andesite, tuffs, and diorite. Rhyolite is largely absent, as are felsic dikes.

The results are not of economic interest, and further work is not justified.



#### RESULTS of DRILLING (cont'd)

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All thirteen holes on the <u>Bonanza vein</u> cut the vein, although it was not always recognized during the initial core logging. Eight of the hole intersections yielded interesting gold values, across core lengths of 0.5 to 6.6 feet.

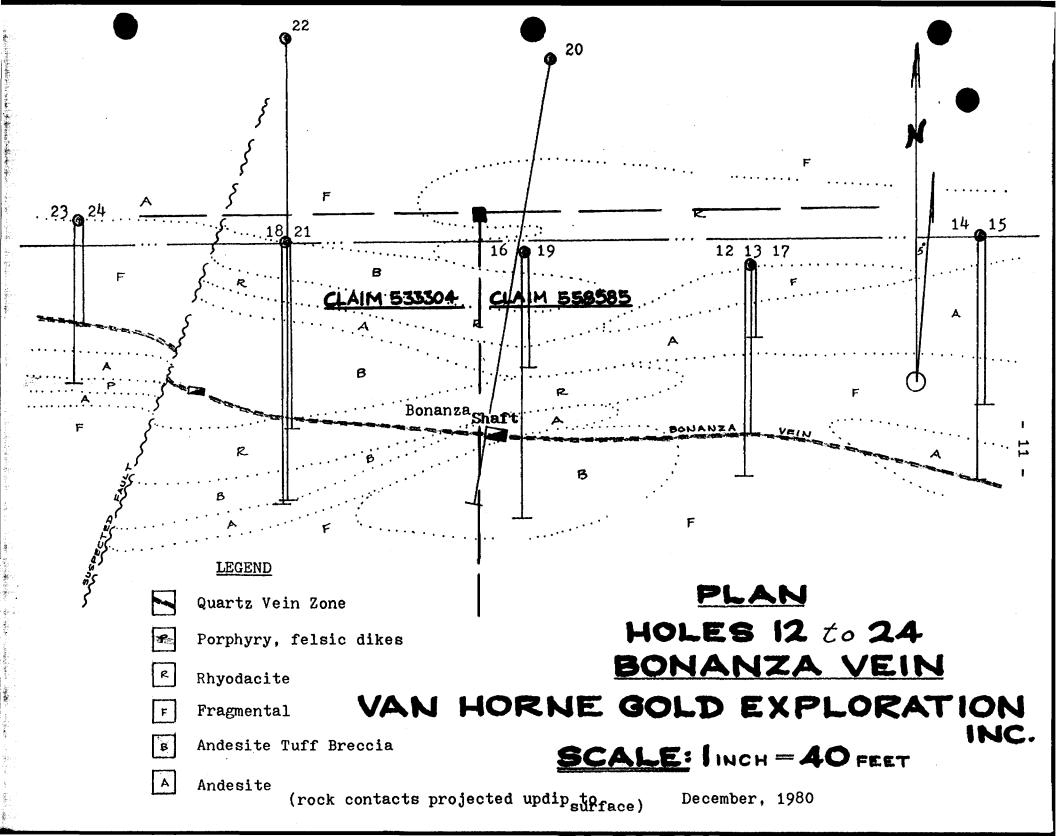
Eight tonnage blocks can be calculated from the drilling results, and these blocks are shown on the accompanying Longitudinal Section of the Bonanza Vein. The total tonnage indicated is 4,834 tons, with a weighted average grade of 0.2471 ounces Gold per ton, across an average true width of 0.91 feet.

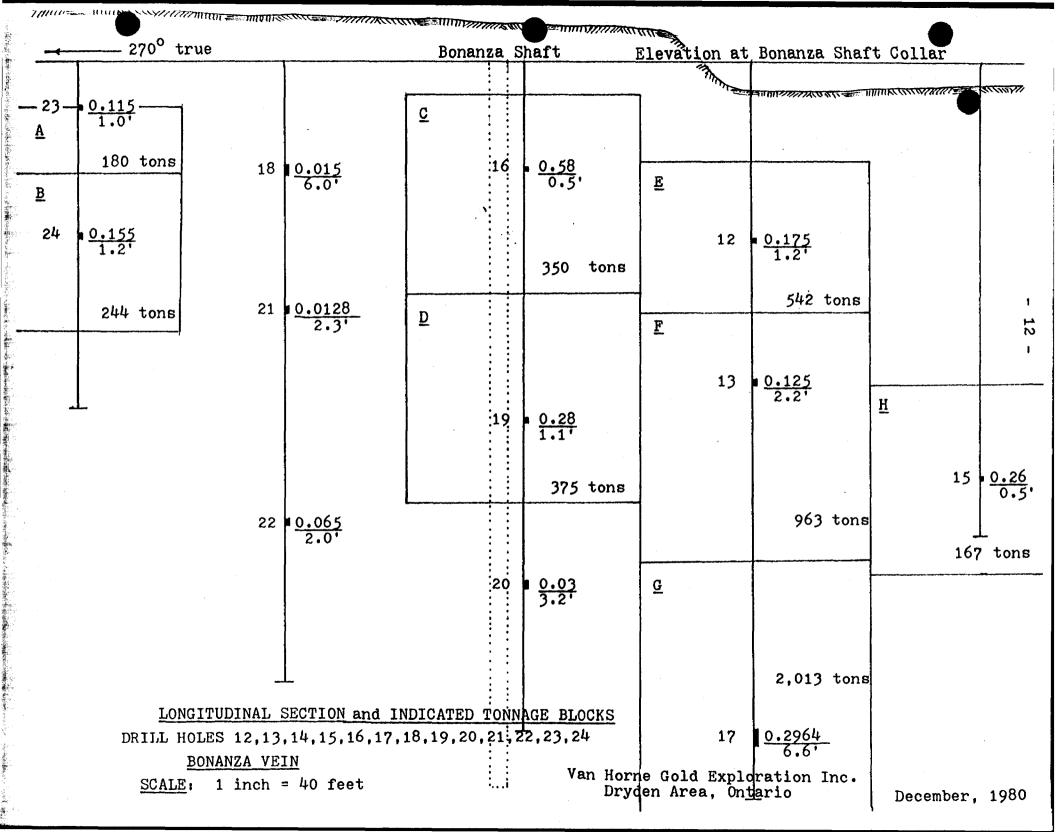
The total vein length drilled is 400 feet, and the deepest intersection (Hole 17) was 270 feet below surface.

The tonnage calculations are shown in Appendix Three.

The predominant rocks intersected were andesite, rhyodacite, andesite fragmental, and andesite tuff breccia. Lesser porphyry and felsic dikes were met. Diorite is largely absent.

The Bonanza vein and its host rocks also appear to be displaced by faulting, as shown on the Plan, and gold values in the vein appear to diminish near the fault.





#### CONCLUSIONS

- 1. The drill holes on the <u>Redeemer Vein</u> cut good vein widths, but only low values.
- 2. Further work on the Redeemer Vein is not warranted.
- o. The drill holes on the <u>Bonanza vein</u> cut narrow vein widths, with encouraging gold values, along a strike length of 400 feet.
- 4. The drill-indicated tonnage in the <u>Bonanza vein</u> is about 5,000 tons averaging about 0.25 ounces

  Gold across an average width of about 1 foot.
- 5. The Bonanza geological environment is a favourable one; there is some evidence of other gold-bearing veins; and it is considered that further work could well develop larger and more economic vein tonnages.
- 6. Further work on the Bonanza zone is justified.

#### RECOMMENDATIONS

#### FIRST STAGE

- 1. The Bonanza underground workings should be dewatered, rehabilitated, mapped, and carefully sampled.
- 2. The remainder of the property should be mapped geologically, and explored by VLF EM and Magnetic geophysical methods.
- 3. The other known veins on the claims should be explored.

# RECOMMENDATIONS (cont'd)

#### SECOND STAGE

- 1. If the Bonanza underground results are economic, then further diamond drilling should be done along strike of the zone, as well as at depth.
- 2. Any of the other known veins which respond well to surface exploration should also be drilled.
- 3. Should the Bonanza underground results turn out to be very much better than the drilling results, then consideration should be given to dewatering and sampling the Redeemer underground workings.

#### COST ESTIMATES

#### FIRST STAGE

- 1. Bonanza underground workings dewatering, rehab, mapping, sampling...\$ 75,000
- 2. Mapping and Geophysical coverage of the remainder of the property..... 25,000
- 3. Surface trenching, sampling...... 25,000
- 4. Supervision, transportation, admin. ... 25.000

  TOTAL FIRST STAGE COST ESTIMATE ..... \$ 150,000

#### SECOND STAGE

Diamond Drilling: 15,000 feet @ \$20.....<u>\$ 300,000</u>

Ross Kidd, P.Eng. Consulting Mining Engineer

February 6th, 1981 Toronto, Ontario

# APPENDIX ONE

VAN HORNE GOLD EXPLORATION INC.

Dryden Area

Ontario

DRILL HOLE LOGS and VERTICAL SECTIONS

Holes 1 to 11 - Redeemer Vein

Holes 12 to 24 - Bonanza Vein

	PROPERT	Van Horne Gold Exploration Inc. Y Van Horne Twp., Dryden Area, Ontario
LOCATION	Redeemer	Vein BEARING 180°t HOLE NO. 1
LOGGED BY_	Ross Kidd	ELEVATION DIP -500 FINAL DEPTH 206.0 feet
STARTED	November 1	3, 1980 TESTS (CORRECTED)
FINISHED	November 1	
CASING	Pulled	200' = 49 <sup>0</sup> (corrected)
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	8.0	CASING
8.0	10.0	ANDESITE
10.0	11.0	TUFFS Dark. Fine-grained. Vaguely banded.
11.0	67.6	ANDESITE Vesicular. Medium-grained.
67.6	75.0	TUFFS Well banded @ 90° to core. Fine-grained.
75.0	77.5	RHYOLITE BRECCIA
77•5	88.8	REDEEMER VEIN ZONE Brecciated upper contact at about 50° to core. Fragments of quartz vein material to 80.0'; andesite to 80.4; 2 stringers of quartz (1 inch and 3 inches) to 80.9; andesite to 82.5; quartz vein material to 84.3'; andesite to 85.5'; quartz vein to 86.5'; andesite to 86.8'; a few brecciated stringers to 88'.8'.
88.88	111.5	ANDESITE Medium-grained. Dense. Occasional quartz stringer.
111.5	122.5	DIORITE Medium-grained. Dense.
122.5	143.5	BASALT Dark. Massive.
143.5	156.0	FRAGMENTAL Medium-grained. Andesitic.
156.0	164.5	BASALT
164.5	171.8	FRAGMENTAL Upper contact @ 55° to core. Lower contact gradational. Rhyolitic.
171.8	182.2	ANDESITE
182.2	192.2	FRAGMENTAL
192.2	195.8	TUFFS Banded @ 55° to core.
195.8	206.0	ANDESITE
• •	206.0	END of HOLE

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Van Horne Gold Exploration Inc. PAGE 1 (Of 1) PROPERTY Van Horne Twp., Dryden Area, Ontario

BEARING 1800 true HOLE NO. 2 Redeemer Vein LOCATION\_ LOGGED BY ROSS Kidd ELEVATION DIP -500 FINAL DEPTH 256.0 feet November 14th, 1980 STARTED\_ TESTS (CORRECTED) November 17th, 1980

FINISHED\_ Pulled

 $250' = 53^{\circ}$ 

CASING\_ CORE SIZE AQ

FROM	то	DESCRIPTION
0.0	4.5	CASING
4.5	42.0	BASALT Dense. Fine-grained. Weakly fractured @ 45° to core. Very occasional thread of quartz, at 40°-60° to core. Gradually becoming coarser grained.
42.0	46.5	RHYOLITE Fine-grained. Vaguely tuffaceous @ 45°to core.
46.5	67.0	DIORITE  Medium-grained. Dense. Upper contact @ 45 to core. Coarser grained in middle of section. Lower contact gradational.
67.0	181.5	ANDESITE Vesicular. Fine-grained. Flow lines @ 50 to core. Locally tuffaceous.
181.5	192.0	REDEEMER VEIN ZONE Brecciated upper contact at about 50°. Quartz fragments to 182.0. Lost core between 182.0 - 184.0. Largely andesite between 184.0 - 186.0, some ½ inch stringers Quartz veining and siliceous andesite from 186.6 to 192.0, considerably brecciated.
192.0	238.0	ANDESITE Fine-grained. Vesicular.
238.0	248.0	DIORITE Medium-grained. Dense.
248.0	256.0	BASALT Fine to medium-grained. Several quartz stringers @ 450-600 to core.
	256.0	END of HOLE
		HOLE

		Von Hamma Cald Explanation Two
	PROPER'	Van Horne Gold Exploration Inc. TY Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 2)
LOCATION_R	edeemer Ve	in BEARING 180° true HOLE NO. 3
LOGGED BY	Ross Kidd	ELEVATION DIP -650 FINAL DEPTH 362.0 feet
STARTED	November 1	7th, 1980 TESTS (CORRECTED)
FINISHED	November 1	Market Control of the
CASING	Pulled	362' = 70½°
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	4.0	CASING
4.0	6.5	DIORITE
6.5	49.7	ANDESITE Fine-grained. Dense. A few 4 inch quartz stringers.
49.7	50.4	BRECCIA ZONE Silicified. Some quartz in lenses.
50.4	80.3	ANDESITE Fine-grained. Dense.
80.3	115.5	DIORITE Upper contact gradational. Medium-grained. Dense. Occasional inch quartz stringer @ 40 - 60 to core. Lower contact @ 35 to core.
115.5	118.6	FRAGMENTAL
118.6	156.0	BASALT Upper contact @ 40° to core. Fine-grained. Dense. Quartz stringers rare.
156.0	176.0	DIORITE Medium-grained. Dense. Contacts gradational
176.0	190.2	BASALT Dark. Fine-grained. Dense. Increasing threads of quartz.
190.2	192.4	QUARTZ VEIN Brecciated. Chloritic. No sulfides.
192.4	194.6	FRAGMENTAL
194.6	205.8	DIORITE Dense. Medium-grained. Lower contact @ 30° to core.
205.8	207.0	BASALT Carries about ten 1/8 inch quartz veinlets @ 30 to core.
207.0	214.6	DIORITE 5
214.6	266.5	ANDESITE Dense. Medium-grained. Occasional bleb or thread of quartz.

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PROPERTY	Van Horne Gold Exploration Inc. Van Horne Twp., Dryden Area, Ontario	PAGE 2	(of 2	:)
	P54P100	101 E NO	3	

LOCATION	BEARING HOLE NO. 3
LOGGED BYELEVATION	DIPFINAL DEPTH

FINISHED\_\_\_\_\_

CARING

CORE SIZE

FROM	то	DESCRIPTION
266.5	288.0	BASALT Fine-grained. Flow lines @ 35° to core.  271.2 - 272.7: 20% quartz in stringers.  286.0 - 288.0: 40% quartz veining.
288.0	298.0	DIORITE
298.0	342.0	ANDESITE Medium-grained. Dense.
342.0	362.0	BASALT Medium-grained. Dense.  359.6 - 360.6: Quartz vein, some ankerite.
	362.0	END of HOLE

No definite Redeemer Vein Zone was intersected. 5 separated quartz vein or stringer zones were sampled.

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		PROPERT	Van Hor Y VanHo	ne Gold E rne Twp.,	xploration Inc. Dryden Area, Ontario PAGE 1 (of 2)	)
	LOCATION	Redeemer Ve	in		BEARING 1800 true HOLE NO. 4	
	LOGGED BY_	Ross Kidd	ELEVATION		DIP -500 FINAL DEPTH 206.0 feet	_
	STARTED	November 1	9th, 1980		TESTS (CORRECTED)	
	FINISHED	November 2	0th, 1980		206' <b>=</b> 36°	
	CASING	Pulled			200° = 30	•
	CORE SIZE_	AQ	·····	····		
	FROM	то			DESCRIPTION	-
	0.0	6.0	CASING			_
	6.0	31.0	ANDESITE	as hol to cor	um-grained. Becoming finer-grained e deepens. Vague flow lines @ 50° e, along with a very occasional of quartz at same core angle.	
					y vesicular.	
	31.0	46.0	REDEEMER V	EIN ZONE		
			31.0	- 35.0:	Quartz Vein. Minor ankerite and chlorite in seamlets. Both contacts @ 45° to core. Quartz is blueish. No sulfides.	
			35.0	- 39.0:	Chloritic tuff and fragmental. About 15 1/8" to 1" syringers in the section. Minor Pyrite in occasional clusters.	
٠			39.0	- 45.3:	Quartz Vein. White quartz, with minor ankerite. Both contacts @ 45° to core. No sulfides.	
!			45.3	- 46.0:	Silicified Andesite. Brecciated. About 20% quartz in lenses and veinlets.	
	46.0	54.6	ANDESITE	Medium	to coarse-grained.	
	54.6	59.3	TUFFS	Fine-gra	ined. Vaguely banded @ 50°-60° to core.	
	59•3	68.3	ANDESITE			
	68.3	78.3	TUFFS		<del> </del>	_
i	78.3	158.0	ANDESITE	Fine to	medium-grained. Dense. Flow lines @ 55° to core.	-
	158.0	163.6	DIORITE	contorte	o medium-grained. Considerable d quartz veinlet invasion, t flat angles to the core.	

		·
	PROPERT	Van Horne Gold Exploration Inc.  Y Van Horne Twp., Dryden Area, Ontario PAGE 2 (of 2)
LOCATION		ein BEARING 180° true HOLE NO. 4
		ELEVATIONDIPFINAL DEPTH
		TESTS (CORRECTED)
FINISHED		TESTS (CORRECTED)
FROM	то	DESCRIPTION
		157.0 - 161.0: Three 2-3 inch quartz veins @ 25°- 40° to core. Considerably contorted. Some chloritic alteration, minor ankerite, no sulfides.
163.6	190.7	ANDESITE Vesicular. Medium-grained. Dense.
		165.6 - 166.0: Quartz vein.
		162.7 - 163.3: $\frac{1}{4}$ to 2 inch quartz stringers
		FRAGMENTAL  Large fragments from 197' on, and finer sizes before that.
	206.0	END of HOLE
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HOLE NO.

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-	PROPERT	Van Hor 'Y Van Ho	rne Gold Exploration Inc. orne Twp., Dryden Area, Ontario PAGE1 (of 1)
LOCATION	Redeemer V	ein	BEARING 1800 true Hole No. 5
LOGGED BY_	Ross Kidd	ELEVATION.	DIP -580 FINAL DEPTH 206.0 feet
STARTED	November	20th, 1980	)TESTS (CORRECTED)
FINISHED	November	21st, 1980	)
CASING	Pulled		206' = 54°
CORE SIZE	AQ		
FROM	то		DESCRIPTION
0.0	5.0	CASING	
5.0	11.7	TUFFS	Well broken up. Fine-grained to fragmental.
11.7	65.6	ANDESITE	Fine-grained. Dense.
65.6	84.8	DIORITE	Medium-grained. Dense. 0.3' quartz veins at both lower and upper contacts, both at 60° to core.
			80.4' - 81.0': Quartz veining.
			73.5'; 2" chloritic breccia zone.
84.8	145.5	ANDESITE	Fine to medium-grained. Dense. Very occasional thread of quartz @ 65° to core.
145.5	150.0	TUFFS	D
			Banding @ 50° to core.  145.5' - 145.8': Quartz vein.
150.0	206.0	ANDESITE	
			Fine to medium-grained. Dense. Becoming basaltic in last 10 feet.
	206.0	END of HO	
,		(n	o definite Redeemer Vein Zone.)
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	PROPERT	TY Van Horne	e Gold Exploration Inc. Twp., Dryden Area, Ontario PAGE 1 (of 2)
LOCATION	Redeemer V	ein	BEARING 180° true HOLE NO. 6
LOGGED BY.	Ross Kidd	ELEVATION	DIP -70° FINAL DEPTH 300.0 feet
STARTED	November	21st, 1980	TESTS (CORRECTED)
FINISHED	November	22nd, 1980	
CASING	Pulled		300' = 57°
CORE SIZE	AQ		
FROM	то		DESCRIPTION
0.0	2.0	CASING	
2.0	19.0	DIORITE	Fine to medium-grained. Mottled with chlorite veinlets. Lower contact gradational.
19.0	28.0	BASALT	Fine-grained. Massive.
28.0	107.7	ANDESITE	A few quartz veinlets from 41' - 46'. Occasional thread of quartz throughout. Lower contact @ 35° to core.
107.7	132.2	DIORITE	Medium-grained. Chlorite veinlet mottling. Lower contact @ 40° to core.
			114.0' - 114.2': Quartz vein.
132.2	188.0	ANDESITE	Fine-grained. Dense. Occasional flow line @ 70° to core.
			158.2' - 158.3': Quartz vein.
			160.2' - 160.3': Quartz vein.
			176.9' - 177.0': Quartz vein.
		5.0 f	eet core ground between 166' - 176'.
188.0	208.0	REDEEMER V	EIN ZONE  188.0 - 190.8: Stringer zone. About 33 1/8th inch to thread-width quartz stringe in andesite, from 40° to 60° to core.
			190.8 - 196.6: Vein Zone. About 40% quartz, no sulfides.
		·	196.6 - 200.8: Silicified andesite. About 20% quartz in lense and stringers.
			200.0 - 203.8: Silicified andesite. Minor quartz stringers.
			203.8 - 206.7: Vein Zone. About 40% ouartz. No sulfides.
			206.7 - 208.0: Stringer Zone. 8 1/8th to thread-size stringers in andesite. No sulfides.

Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario

PAGE 2 (of 2)

LOCATION Redeemer Vein	BEARING 1800 true HOLE NO. 6
LOGGED BY ELEVATION	DIPFINAL DEPTH
STARTED	TESTS (CORRECTED)
FINISHED	
CASING	

CORE SIZE\_

FROM	то		DESCRIPTION
208.0	239.9	ANDESITE	Quite silicified. Almost rhyolitic. Fine-grained. Dense.
239.9	250.7	DIORITE	Medium-grained. Dense. Lower contact
250.7	300.0	ANDESITE	Fine to medium-grained. Dense. Very occasional veinlet of quartz.
	300.0	END of HOLE	

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Van Horne Gold Exploration Inc. PAGE 1 (of 1) PROPERTY Van Horne Twp., Dryden Area, Ontario BEARING 1800 true HOLE NO. 7 LOCATION Redeemer Vein -500 FINAL DEPTH\_\_\_ LOGGED BY ROSS Kidd ELEVATION DIP 206.0 feet November 23rd, 1980 TESTS (CORRECTED) STARTED\_ November 24th, 1980 FINISHED.  $206' = 50^{\circ}$ Pulled CASING\_ AQ CORE SIZE\_ FROM то DESCRIPTION 0.0 5.0 CASING GROUND CORE (Boulders) 5.0 10.0 43.5 ANDESITE 10.0 42.4' = 1 inch quartz stringer in chlorite breccia. 36' - 46': Stringer Zone. Minor Pyrite. About 25 thread-width to \frac{1}{2} inch quartz stringers in andesite and diorite, from 40-60° to core. 43.5 50.0 DIORITE 50.0 86.0 TUFFS 5.0 feet ground between 56' - 66'. 86.0 137.5 ANDESITE Fine-grained. Dense. 137.5 139.5 TUFFS Dark. Fine-grained. Soft. 139.5 153.4 ANDESITE 153.4 162.6 DIORITE Medium-grained. Dense. 153.5 - 155.0: Quartz stringers. 158.7 - 160.5: Quartz stringers. 162.6 206.0 ANDESITE Fine-grained. Becoming medium-grained and vesicular. 206.0 END of HOLE (No definite Redeemer Vein Zone was intersected, unless the Stringer Zone from 36'-46' is it)

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	PROPERT	Van Horne Gold Exploration Inc.  Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 1)
LOCATION	Redeemer Ve	ein BEARING 180° true HOLE NO. 8
LOGGED BY_	Ross Kidd	ELEVATIONDIP500 FINAL DEPTH106.0 feet
STARTED	November 2	5th, 1980tests (corrected)
FINISHED	November 2	5th, 1980
CASING	Pulled	106' = 52½°
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	4.0	CASING
4.0	14.0	TUFFS Dark Fine-grained. Soft.
14.0	86.0	ANDESITE Fine to medium-grained. Dense. Becoming vesicular and finer-grained as hole deepens.
86.0	95.0	FRAGMENTAL  Medium-grained. Vague layering @ 50° to core. Occasional veinlet of quartz.  92.0 - 95.0: Increasing quartz stringer activity.
95.0	105.0	QUARTZ STRINGER ZONE (REDEEMER ZONE)
		Dacite to 101', and fragmental thereafter.
		About 66 stringers in the section, from thread-width to $1\frac{1}{2}$ inches, mainly @ 50 to core. No sulfides.
105.0	106.0	FRAGMENTAL
	106.0	END of HOLE
		HOLE NO

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	PROPERT	Van Horne Gold Exploration Inc. Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 1)
LOCATION	Redeemer Ve	in BEARING 180° true HOLE NO. 9
LOGGED BY.	Ross Kidd	ELEVATIONDIP770 FINAL DEPTH_ 206.0 feet
STARTED	November 2	6th, 1980tests (CORRECTED)
FINISHED	November 2	6th, 1980
CASING	Pulled	200' = 64°
CORE SIZE		
FROM	то	DESCRIPTION
0.0	4.0	CASING
4.0	9.5	TUFFS Dark. Fine-grained. Soft.
9•5	119.5	ANDESITE Fine-grained. Dense. Occasional flow line @ 30° to core.
•		79.0 - 79.4: Quartz stringers, brecciated and chloritic.
		90.0 - 93.0: 15 quartz threadlets.
119.5	123.6	FRAGMENTAL Medium-grained, becoming finer-grained.
123.6	129.0	DIORITE Medium-grained. Dense. Seamlets chlorite.
129.0	146.0	ANDESITE Fragmented in first 3 feet. Fine-grained.
146.0	163.2	REDEEMER VEIN ZONE
		Stringer Zone. More than 100 quartz stringers, from thread-size to 2 inches in width, largely @ 30° to core. The section is somewhat chloritized and silicified. Very occasional crystal of Pyrite.
•		146.0 - 150.0: TUFFS
		150.0 on - ANDESITE
150.0	190.5	ANDESITE Fine-grained. Dense. Almost rhyolitic in last 18 feet.
190.5	203.0	FRAGMENTAL Medium-grained. Both contacts sharp at 30° to core.
203.0	206.0	ANDESITE Silicified. Almost rhyolitic.
	206.0	END of HOLE

	PROPERT	Van Horne Gold Exploration Inc. TY Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 1)
LOCATION	Redeemer	Vein BEARING 180° true HOLE NO. 10
LOGGED BY	Ross Kidd	DIP660 FINAL DEPTH_ 306.0 feet
STARTED	November 2	6th, 1980tests (corrected)
FINISHED	November 2	7th, 1980
CASING	Pulled	300' = 72½°
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	10.0	CASING
10.0	11.5	TUFFS Dark. Fine-grained. Broken up.
11.5	22.7	ANDESITE Fine-grained. Broken up.
22.7	55.0	FRAGMENTAL A few included narrow andesite sections.
55.0	74.7	DIORITE Medium-grained. Massive.
74.7	82.0	BRECCIA ZONE  1.6 feet ground core. Lower contact @ 40 to core. About 15% quartz material cemented into zone. Some pinkish rhyolite fragments.
82.0	96.0	ANDESITE Quite well sheared.
96.0	117.8	DIORITE Both contacts sharp @ 40° to core. Medium-grained. Massive.
		107.4 - 107.7: Quartz vein.
		110.0 - 110.6: Quartz stringers.
117.8	134.1	ANDESITE Fine-grained. Dense. Almost a rhyolite.
134.1	143.0	TUFFS Dark. Fine-grained.
143.0	165.6	ANDESITE Medium-grained. Dense.  163.7 - 163.9: Quartz stringer.
165.6	185.5	FRAGMENTAL Some included andesite and tuff. Mildly chloritized locally. Vague layering @ 35 to core. Sharp lower contact @ 30 to core.
185.5	221.2	DIORITE Medium-grained. Massive. Both contacts sharp at 30° to core.
		1 inch quartz stringers @ 191.0, 198.2, 209.3, 219.0.
221.2	306.0	ANDESITE Medium-grained. 280.0 - 280.2: Quartz stringer,
		298.8 - 299.0: Quartz stringer. 305.7 - 306.0: 3/4" vein @ 30° to
	306.0	core. Could be the north edge of the Redeemer Vein.

END of HOLE

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	PROPERT	Van Horne Gold Exploration Inc. Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 2)
LOCATION_R	edeemer Vei	bearing 180° true Hole No. 11
LOGGED BY_	Ross Kidd	ELEVATION DIP -650 FINAL DEPTH 406.0 feet
STARTED	November 27	7th, 1980 TESTS (CORRECTED)
FINISHED	November 28	3th, 1980 200 ft. = 73°
CASING	Pulled	400 ft. = 49°
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	8.0	CASING
8.0	15.5	TUFFS Dark. Fine-grained. Some minor andesite.
15.5	66.0	ANDESITE Medium-grained at first, becoming finer-grained, then changing into a fragmental.
66.0	93.0	FRAGMENTAL Medium-grained. except near start and finish, where it grades into massive andesite.
93.0	139.3	ANDESITE Dense. Fine to medium-grained.
139.3	164.0	DIORITE Medium-grained. Massive. Upper contact gradational, lower contact @ 40° to core.
		143.0 - 143.6: Quartz stringers.
164.0	179.0	TUFFS Dark. Fine-grained. Grading into a fragmental.
179.0	215.0	FRAGMENTAL Grading back into a tuff in last 10 ft.
215.0	218.0	TUFFS
218.0	257.0	ANDESITE Medium-grained. Occasional flowline or quartz stringer @ 40 to core.
257.0	268.2	DIORITE Medium-grained. Dense. Lower contact @ 45° to core, accompanied by olivene alteration. Upper contact gradational.
268.2	292.0	ANDESITE Medium-grained. Dense.
292.0	293.4	TUFFS Broken up. Fault gouge @ 293.0'.
293.4	331.0	ANDESITE Fine-grained. Dense. Increasing quartz stringer activity in last 10 ft.

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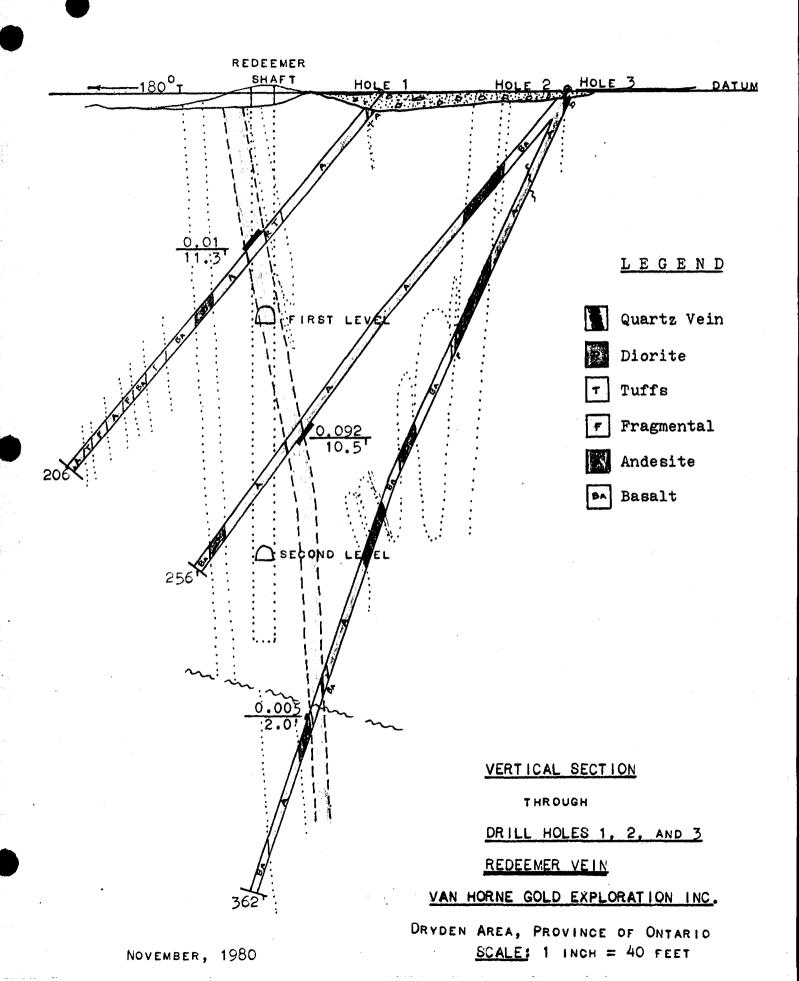
# Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE 2 (of 2)

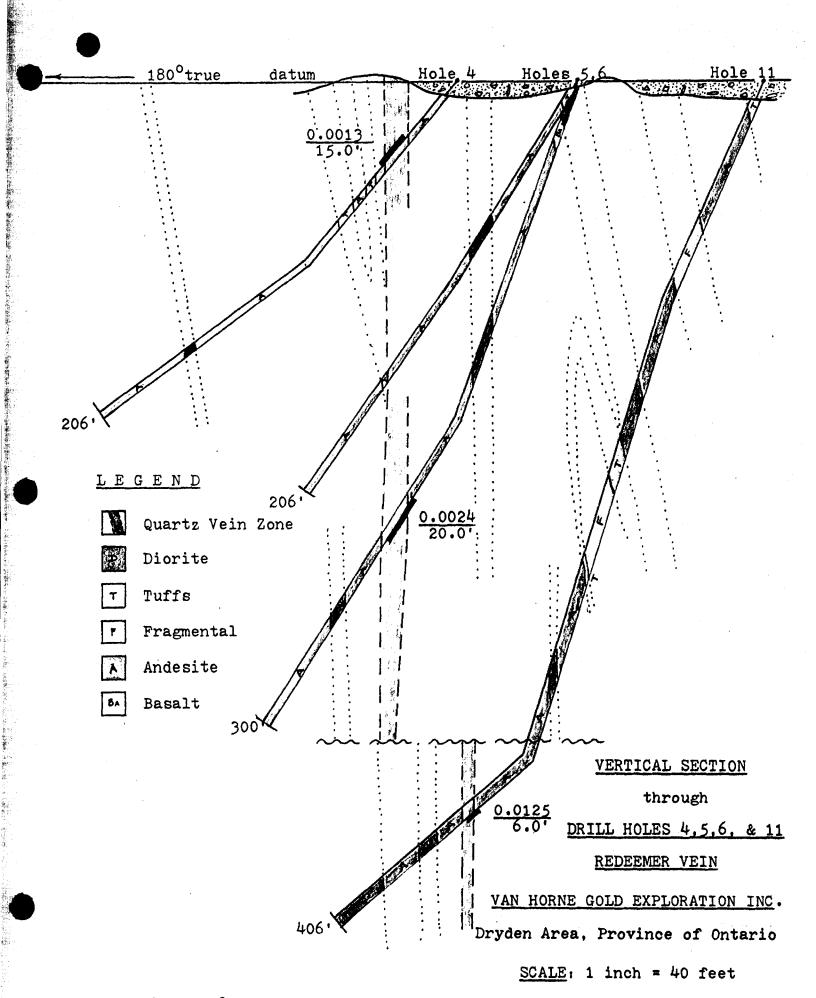
LOCATION Redeemer	Vein	BEARING	HOLE NO. 11
LOGGED BY	ELEVATION	DIPFINAL DEPTH.	
STARTED		TESTS (CORRECTED)	
FINISHED		_	
CASING		_	

FROM	<b>T</b> O	DESCRIPTION
331.0	337.0	REDEEMER VEIN ZONE
		65% quartz-carbonate. Very sparse Pyrite in localized clumps. Chloritized. Both contacts sheared, and @ 40° to core.
337.0	351.0	ANDESITE
	•	Dense. Silicified. Fine-grained.
351.0	361.0	DIORITE
		Medium-grained. Dense. Upper contact @ 60° to core. and lower contact @ 40° to core.
361.0	381.6	ANDESITE
1		Dense. Medium-grained.
381.6	406.0	DIORITE
		Massive. Medium-grained.
	406.0	END of HOLE

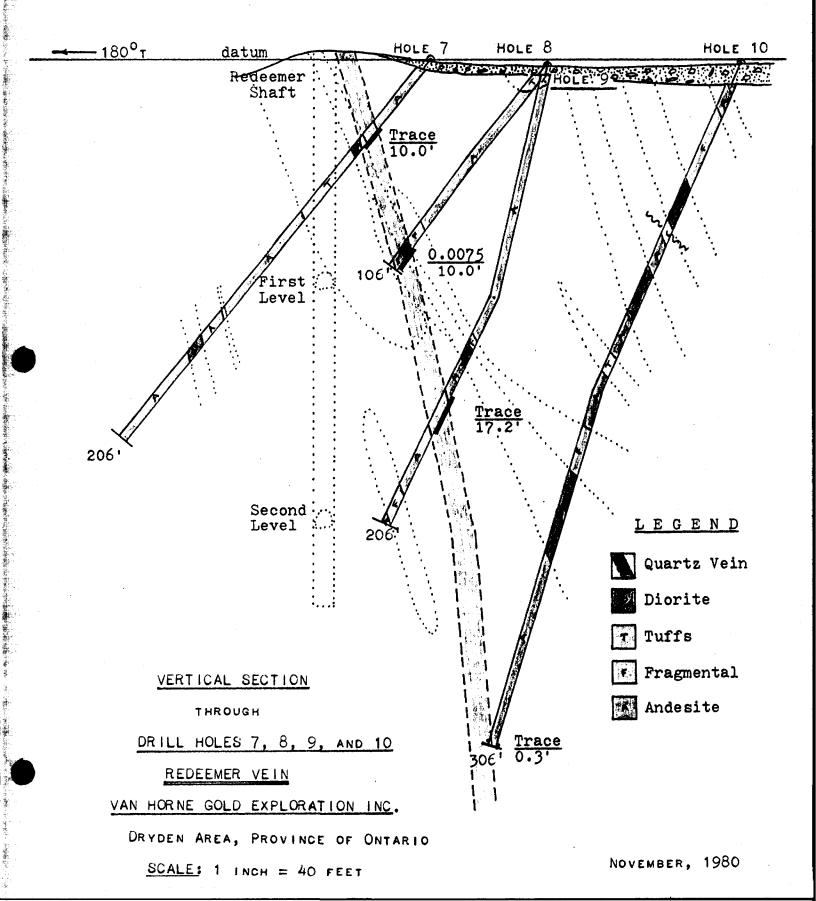
HOLE NO.

8608





November, 1980



### BONANZA VEIN

Holes 12 to 24

Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE 1(of 1) LOCATION BONANZA Vein BEARING 180° true HOLE NO. 12 DIP -450 FINAL DEPTH 127.0 feet LOGGED BY ROSS Kidd \_\_\_\_ELEVATION\_\_\_\_\_ November 28th, 1980 (Second STARTED\_ TESTS (CORRECTED) Drill) November 30th, 1980  $127' = 44^{\circ}$ FINISHED\_ Pulled CASING\_ AQ CORE SIZE TO FROM DESCRIPTION 0.0 20.0 CASING 20.0 33.2 ANDESITE 34.2 33.2 QUARTZ VEIN Minor Pyrite. Tourmaline. Gradational contacts. 46.0 34.2 ANDESITE 46.0 77.0 FRAGMENTAL 77.0 85.0 OPEN SPACE Underground workings. Probably the Bonanza Vein location. 85.0 89.0 FRAGMENTAL 89.0 Pinkish. No sulfides. 90.0 QUARTZ VEIN 90.0 FRAGMENTAL 127.0 Layering at about 55° to core. 127.0 END of HOLE

Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area. Ontario PAGE 1 (of 1) 180° true HOLE NO. 13 LOCATION Bonanza Vein, same setup as \_BEARING \_\_\_ Hole 12. -70° FINAL DEPTH 200.0 feet LOGGED BY H.J.Hodge \_ ELEVATION\_\_ (Second November 30, 1980 TESTS (CORRECTED) Drill) December 1, 1980 FINISHED\_  $200' = 68^{\circ}$ Pulled CASING\_ AQ CORE SIZE\_ то DESCRIPTION FROM 12.0 0.0 CASING 12.0 34.5 FRAGMENTAL 25.0 - 27.01 Carbonate alteration. moderate to heavy. 34.5 113.0 ANDESITE Massive. Grey. White-flecked. Quartz stringers @ 40° 55.0 - 59.0: to core, and one quartz vein from 57.6 - 57.9. Andesitic. Fewer fragments than usual. In contact @ 30° to core. FRAGMENTAL 113.0 125.9 124.0 - 125.0: Carbonatized, with quartz stringers to 1 inch, minor Pyrite. In contact @ 30° to core. 128.8 DYKE (DACITE) ? 125.9 128.8 131.0 BONANZA VEIN 60% quartz, 10% carbonate. Some tourmaline. Brecciated appearance. 200.0 FRAGMENTAL Andesitic, as before. 131.0 136.3' - 1" Quartz stringer. 136.6' - 3/4 inch Quartz stringer. 141.7' - 3/4" Quartz stringers, all @ 35° to CA. 178.5' - 3/4" Quartz stringer. Occasional fragments or dykes of Dacite. 200.0 END of HOLE

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Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 1) BEARING 1800 true Hole No. 14 LOCATION Bonanza Vein LOGGED BY ROSS Kidd ELEVATION DIP -450 FINAL DEPTH 156.0 feet November 29th, 1980 TESTS (CORRECTED) STARTED\_ November 30th, 1980 FINISHED\_ 150' = 52° Pulled CASING\_ AQ CORE SIZE\_ TO FROM DESCRIPTION 0.0 42.0 CASING 42.0 56.0 ANDESITE 56.0 109.0 FRAGMENTAL 109.0 156.0 ANDESITE 116.9' - 1 inch Quartz stringer. 120.0 - 156.0: Considerable Quartz stringer activity, up to ½ inch in width. 156.0 END of HOLE No samples taken.

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Van Horne Gold Exploration Inc.  PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE1 (of 1)  LOCATION BONANZA Vein. Same Setup as BEARING 180° true HOLE NO. 15 HOLE 14. LOGGED BY H.J.Hodge ELEVATION DIP.—70° FINAL DEPTH 201.0 feet  STARTED December 1st, 1980 TESTS (CORRECTED)  PULLED 200° = 68°  PULLED 200° = 68°  200° = 68°  200° = 68°  200° = 68°  201° = 68°  201° = 68°  ANDESITE Altered to pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1; Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Cright grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite Bedding @ 35° to core at 152°. 165.0 - 165.6; Strongly silicified zone, lightly sheared. 27% Pyrite. 178.2°; 1 inch Quartz vein, minor Pyrite.								
Hole 14.  December 1st, 1980  TESTA (CORRECTED)  PULLED  December 2nd, 1980  PULLED  DECEMBER SIZE AQ  FROM TO DESCRIPTION  0.0 20.0 CASING  20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRACMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2.2% Pyrite.  178.2': 1 inch Quartz vein,		PROPERT					PAGE 1 (OÍ	1)
December 1st, 1980  Pulled  December 2nd, 1980  Pulled  Description  O.O 20.0 CASING  20.0 20.6 FRAGMENTAL  December 2nd, 1980  Prince Size  Prince AQ  FROM TO DESCRIPTION  O.O 20.0 CASING  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at. 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2.2.% Pyrite. 178.2': 1 inch Quartz vein,	LOCATION_B	onanza Veir	1. Same seti	up as	_BEARING	180° true	HOLE NO. 15	
Pulled 200' = 68°  Pulled 200' =	LOGGED BY	H.J.Hodge	ELEVATION	e 14.	DIP -700	FINAL DEPTH_	201.0 feet	<u>t                                     </u>
Pulled 200' = 68°  FROM TO DESCRIPTION  0.0 20.0 CASING 20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at; 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	STARTED	December 1s	st, 1980		TESTS (CORF	ECTED)		
FROM TO DESCRIPTION  0.0 20.0 CASING  20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet) Bedding @ 35° to core at 152'. 165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite. 178.2': 1 inch Quartz vein,	FINISHED	December 2r	nd, 1980		_			
O.0 20.0 CASING  20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking.  79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic.  Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	CASING	Pulled			_ 200	)' = 68°		
20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet) Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	CORE SIZE	AQ					·	
20.0 20.6 FRAGMENTAL Chloritic.  20.6 29.0 RHYODACITE Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic.  Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'. 165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	FROM	то			DESCRIPTI	ON		
20.6  29.0  RHYODACITE  Dark pinkish grey. Moderately to heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3: Heavily fractured and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0  49.7  ANDESITE  Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7  83.0  RHYODACITE  Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking.  79.1 - 80.1: Strong fracture zone - Fault?  83.0  201.0  FRAGMENTAL  Gradational contact. Lightly chloritic.  Light grey silicified zones at:  96.8 - 97.0 98.6 - 99.0  99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared.  2-3% Pyrite.  178.2': 1 inch Quartz vein,	0.0	20.0	CASING					
heavily carbonatized. Numerous quartz-carbonate stringers in fractures.  20.6 - 22.3; Heavily fractured and carbonatized.  27.2 - 27.9; Quartz-carbonate veining @ low angles to core.  29.0  49.7  ANDESITE  Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7  83.0  RHYODACITE  Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking.  79.1 - 80.1; Strong fracture zone - Fault?  83.0  201.0  FRAGMENTAL  Gradational contact. Lightly chloritic.  Light grey silicified zones at:  96.8 - 97.0 98.6 - 99.0  99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6; Strongly silicified zone, lightly sheared.  2-3% Pyrite.  178.2'; 1 inch Quartz vein,	20.0	20.6	FRAGMENTAL	Chlori	tic.			
and carbonatized.  27.2 - 27.9: Quartz-carbonate veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained. from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet) Bedding @ 35° to core at 152'. 165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	20.6	29.0	RHYODACITE	heavil	y carbona	atized. N	umerous	ures.
veining @ low angles to core.  29.0 49.7 ANDESITE Altered to pinkish-grey for 2 feet from contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained. from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet) Bedding @ 35° to core at 152'. 165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite. 178.2': 1 inch Quartz vein,		·		<u>-</u>		Heavily	fractured	
contact, otherwise grey. Occasional quartz stringer.  49.7 83.0 RHYODACITE Dark grey. Siliceous. Fine-grained.  from 73' on - white quartz-carbonate flecking. 79.1 - 80.1: Strong fracture zone - Fault?  83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic. Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,				27.2	27.9:	veini <b>n</b> g	@ low angle:	S
from 73' on - white quartz-carbonate flecking.  79.1 - 80.1: Strong fracture zone - Fault?  83.0  ERAGMENTAL Gradational contact. Lightly chloritic.  Light grey silicified zones at:  96.8 - 97.0 98.6 - 99.0  99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared.  2-3% Pyrite.  178.2': 1 inch Quartz vein,	29.0	49.7	ANDESITE	contact,	otherwise			n
79.1 - 80.1: Strong fracture zone - Fault?  83.0  201.0  FRAGMENTAL  Gradational contact. Lightly chloritic.  Light grey silicified zones at:  96.8 - 97.0 98.6 - 99.0  99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared.  2-3% Pyrite.  178.2': 1 inch Quartz vein,	49.7	83.0	RHYODACITE	Dark grey	. Silice	ous. Fine	-grained.	
83.0 201.0 FRAGMENTAL Gradational contact. Lightly chloritic.  Light grey silicified zones at: 96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,			į					
Light grey silicified zones at:  96.8 - 97.0 98.6 - 99.0  99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared.  2-3% Pyrite.  178.2': 1 inch Quartz vein,			79	.1 - 80.1:	Strong	fracture	zone - Faul	t?
96.8 - 97.0 98.6 - 99.0 99.9 - 100.1 102.0 - 103.1 (Pyrite seamlet)  Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein.	83.0	201.0	FRAGMENTAL			_	•	ic.
Bedding @ 35° to core at 152'.  165.0 - 165.6: Strongly silicified zone, lightly sheared. 2-3% Pyrite.  178.2': 1 inch Quartz vein,	,			96.8	- 97.0	98.6 - 9	9.0 .03.1 (Pyrit	
zone, lightly sheared. 2-3% Pyrite. 178.2': 1 inch Quartz vein,				Bedding	@ 35 <sup>0</sup> to	core at 1	seaml	et)
178.2': 1 inch Quartz vein,				165.0	- 165.6:	zone. li	ghtly shear	ed.
minor Pyrite.				178.2'		n Quartz v	rein,	
m					min	or Pyrite.		HOLE NO.
201.0 END of HOLE		201.0	END of HOLE	_				o.
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Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 1) LOCATION Bonanza Vein BEARING 180° trueHole No. 16 -45° FINAL DEPTH 154.0 feet LOGGED BY H.J.Hodge ELEVATION DIP December 3rd, 1980 STARTED\_ TESTS (CORRECTED) December 4th, 1980 FINISHED.  $154' = 41^{\circ}$ Pulled CASING... AQCORE SIZE\_ FROM то DESCRIPTION 2.0 0.0 CASING 2.0 5.5 RHYODACITE Dark grey. Hard. Massive. Aphanitic, siliceous. Possibly silicified intermediate volcanic. Scattered 1" quartz stringers @ 5'. 5.5 19.0 ANDESITE TUFF\_BRECCIA Dark greenish-grey. Fine tuffaceous matrix with numerous fragments up to 1" in greatest dimension. 7.0 - 8.0: 75% grey Quartz. 19.0 46.5 RHYODACITE? as above (2'-5.5'). Quartz and carbonate? blebs beginning at 36' give rock porphyritic texture. Less than 1% Pyrite and Pyrrhotite. 2" quartz-chlorite vein at 36'. 4" quartz vein with tourmaline from 43.8-44.2. 46.5 59.0 ANDESITE? (Fine Diorite?) Massive with scattered quartz stringers. 59.0 75.0 RHYODACITE As above. 81.0 Fine-grained, moderately bedded, chloritic. 2" quartz-carbonate 75.0 ANDESITE (TUFF?) vein at contact. 84.5 81.0 ANDESITE Massive (as 46.5-59.0) 84.5 85.0 BONANZA VEIN Heavy tourmaline. 85.0 140.0 ANDESITE TUFF BRECCIA as at 5.5 - 19.0. 140.0 154.0 ANDESITE - (DIORITE?) Fine-grained. Massive. Dark green. Numerous quartz stringers to 1/8 inch (average 5 stringers per foot of core). 2-3" quartz vein with

Pyrite at 146.5'.

8608

154.0

END of HOLE

	PROPERT	Van Horne Gold Exploration Inc.  Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of 2)
LOCATION	Bonanza Ve	in (Same setup BEARING 180° true HOLE NO. 17 as Holes 12,13)
LOGGED BY_	H.J.Hodge	ELEVATION DIP -860 FINAL DEPTH 301.0 feet
STARTED	December 1	, 1980 (Second Drill) TESTS (CORRECTED)
FINISHED	December 3	<del></del>
CASING	Pulled	300' = 82°
CORE SIZE	AQ	
FROM	то	DESCRIPTION
0.0	10.0	CASING
10.0	45.0	RHYODACITE Grey. Fine-grained. Abundant quartz-carbonate flecking.
45.0	98.7	ANDESITIC FRAGMENTAL Gradational contact. Layering at 20° to core, almost parallel in places.
		83.2 - 83.6: Fractured, broken, iron oxide.
		91.0 - 92.7: Diorite dyke, sharp lower contact at 25° to core.
98•7	104.8	Upper contact @ 20° to core, ½ inch quartz stringer at contact. Quartz threads throughout.
104.8	135.8	FRAGMENTAL Upper contact @ 20° to core. Rock becomes more siliceous from 115-122'.
135.8	181.0	RHYODACITE Sharp contact @ 20° to core. Dark grey.  Massive.  163.6': 2 inch quartz vein, chlorite.
181.0	217.5	ANDESITE ½" quartz stringer at contact, which is at 20° to core.
217.5	271.0	ANDESITE FRAGMENTAL Upper contact @ 20° to core.  218.8' - 1 inch quartz vein.  ANDESITE Last 2' well fractured and carbonatize  BONANZA VEIN ZONE  277.4 - 278.4: Quartz veining in crush
271.0	277.4	ANDESITE Last 2' well fractured and carbonatize
277.4	284.0	BONANZA VEIN ZONE
		277.4 - 278.4: Quartz veining in crush zone, carbonatized.  278.4 - 280.9: Andesite, carbonatized.  280.9 - 281.3: Quartz Vein.  281.3 - 283.5: Andesite, 2" vein @ 282.5'  283.5 - 284.0: Quartz Vein.

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<u></u>	PROPERT	Van Horne TY Van Horne	Gold Exploration Inc. Twp., Dryden Area, Ontario	PAGE	2 (of 2)
LOCATION			BEARING	HOLE NO.	17
LOGGED BY		ELEVATION	DIPFINAL DEPTH_		
STARTED			TESTS (CORRECTED)		
INISHED					
CASING					
CORE SIZE	~				
FROM	то		DESCRIPTION		
284.0	301.0	FRAGMENTAL	Andesitic.		
	301.0	END of HOLE	·		
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					HOLE NO.
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	DD00555	Van Horne Gold Exploration Inc.	
		Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of	1)
	Bonanza Vei		
LOGGED BY_	H.J.Hodge	ELEVATION DIP450 FINAL DEPTH 155.0 fee	t
STARTED	December 4	Drill)	
FINISHED	December 5	th, 1980 155' = 42 <del>1</del> 0	
CASING	Pulled		
CORE SIZE	AQ		
FROM	то	DESCRIPTION	
0.0	4.0	CASING	
4.0	14.0	ANDESITE TUFF BRECCIA Fractured, felspathized to pinkish color adjacent to fractured.	
14.0	22.0	FELSIC DYKE Dark pink, fine-grained, massive.	
22.0	26.5	ANDESITE TUFF BRECCIA	
26.5	41.0	ANDESITE Massive. Fine to medium-grained.	
41.0	74.0	ANDESITE TUFF BRECCIA Includes several siliceous sections, as at 52'(6") and 49'(7").	ıs
74.0	77.5	<u>ANDESITE</u> as at 26.5'-41.0'.	
77•5	97.0	RHYODACITE Grey to pink, carbonatized and silicif (possibly altered andesite?)	fied
		78.5': 3" Quartz vein. 88.0': 4" Quartz vein. Carbonate, pinkish carbonate + silicic alteration for 6" in both wal 89.0 - 97.0: Less altered, dark grey massive, occasional qtz. stri 90.0 - 92.4: Quartz vein, tourmaline	nge:
97.0	118.0	ANDESITE TUFF BRECCIA, as before.	
118.0	132.0	ANDESITE (DIORITE?) Fine-grained, massive.	
132.0	155.0	ANDESITE TUFF BRECCIA, as above	
	155.0	END of HOLE	
			HOLE NO.
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	PROPERT	Van Horne Gold Exploration Inc. Y Van Horne Twp., Dryden Area, Ontario PAGE 1 (of
LOCATION_B	Bonanza Vei	n. (Same setup as BEARING 180° true HOLE NO. 19
LOGGED BY	I.J.Hodge	Hole 16)
STARTED	ecember 4t	th, 1980 TESTS (CORRECTED)
FINISHED	ecember 5t	
CASING P	ulled	170' = 74 <sup>0</sup>
CORE SIZE_A	<u>.Q</u>	
FROM	то	DESCRIPTION
0.0	2.0	CASING
2.0	10.0	ANDESITE TUFF BRECCIA Fine matrix, fragments to 1" slightly chloritic.
10.0	30.5	RHYODACITE Dark grey, fine-grained, massive, aphanitic, siliceous.
30.5	36.5	ANDESITE TUFF BRECCIA, as above.
36.5	102.0	RHYODACITE, as above. Scattered quartz stringers to
		78.1 - 78.7: Quartz Vein - with heavy carbonate and tourmaline.
		98.0 - 102.0: Possibly breccia; more fractured, with quartz threads
102.0	140.0	ANDESITE (DIORITE?) Massive, medium-grained.
140.0	160.0	ANDESITE TUFF BRECCIA, as above. Scattered quartz tringers to 1 inch.
160.0	165.5	ANDESITE Fine-grained, possibly a dyke. 2" of quarattent at contact. Mumerous fractures with brown iron oxide stains.
165.5	168.2	FELSIC DYKE Salmon pink, fine-grained, massive. Fractured in sections. 2" sand? at 167' (operators)
168.2	169.3	BONANZA VEIN with carbonate and tourmaline. 3-5% Pyrite on walls of vein.
169.3	178.0	ANDESITE TUFF BRECCIA
178.0	184.0	OPEN SPACE Drift? Raise?
	184.0	END of HOLE

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	PROPERT	Van Hori Y Van Horn	ne Gold Exploration Inc. e Twp., Dryden Area, Ontario PAGE 1 (of 2
LOCATION	Bonanza Vei	n.	BEARING 1900 true Hole No. 20
LOGGED BY	H.J.Hodge	ELEVATION	DIP -70° FINAL DEPTH 356.0 feet
STARTED	December 5	5th, 1980	TESTS (CORRECTED)
	December 6		200' = 60°
CASING	Pulled		356' = 55 <sup>0</sup>
CORE SIZE	AQ	~	*
FROM	то		DESCRIPTION
0.0	2.0	CASING	
2.0	159.8	FRAGMENTAL	Light to moderately chloritic.
		Bar fr	nding @ 30° to core, and at 40° to core om 110' on. Locally large fragments.
•			13.4 - 14.7: Heavy carbonate alteration.
			28.3 - 29.1: Quartz zone. Minor pyrite and carbonate.
			Silicified Zones (could be fragments) at:
			69.3 - 69.7 79.3 - 79.7 80.0 - 80.3 84.3 - 84.6 85.9 - 86.2
			145.0 - 145.7: Fracture zone, iron oxide along fractures, could be a fault.
159.8	212.2	RHYOLITE?	Dark grey. Very fine-grained. Siliceous Massive. Numerous white flecks of quartz and carbonate. Occasional quartz stringe to $\frac{1}{2}$ inch wide.
			from 186.0': increasing brown carbonate alteration and quartz stringers.  Zones of heavy carbonat alteration from:  187.5 - 188.0  198.0 - 206.0  206.4 - 207.4
212.2	218.6	ANDESITE	Massive. Fine-grained.
218.6	239.3	RHYOLITE?	as before. Moderately carbonatized. Well fractured. Scattered quartz stringers to 1 inch width. Occasional heavy carbonate section.
239.3	356.0	FRAGMENTAL	

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	PROPERT	Van Horne Gold I Y Van Horne Twp., Di	Exploration Inc. ryden Area, Ontari	O PAGE 2 (Of 2
LOCATION	···		BEARING	HOLE NO20
LOGGED BY-		ELEVATION	DIPFINAL DEPT	н
STARTED			TESTS (CORRECTED)	
FINISHED			_	
CASING			_	
FROM	ТО		DESCRIPTION	
			eration with numer ingers. 15-20% qu ' - Banding at 35 <sup>0</sup>	
	356.0	END of HOLE		
		·		
•				
				<b></b>
				HOLE

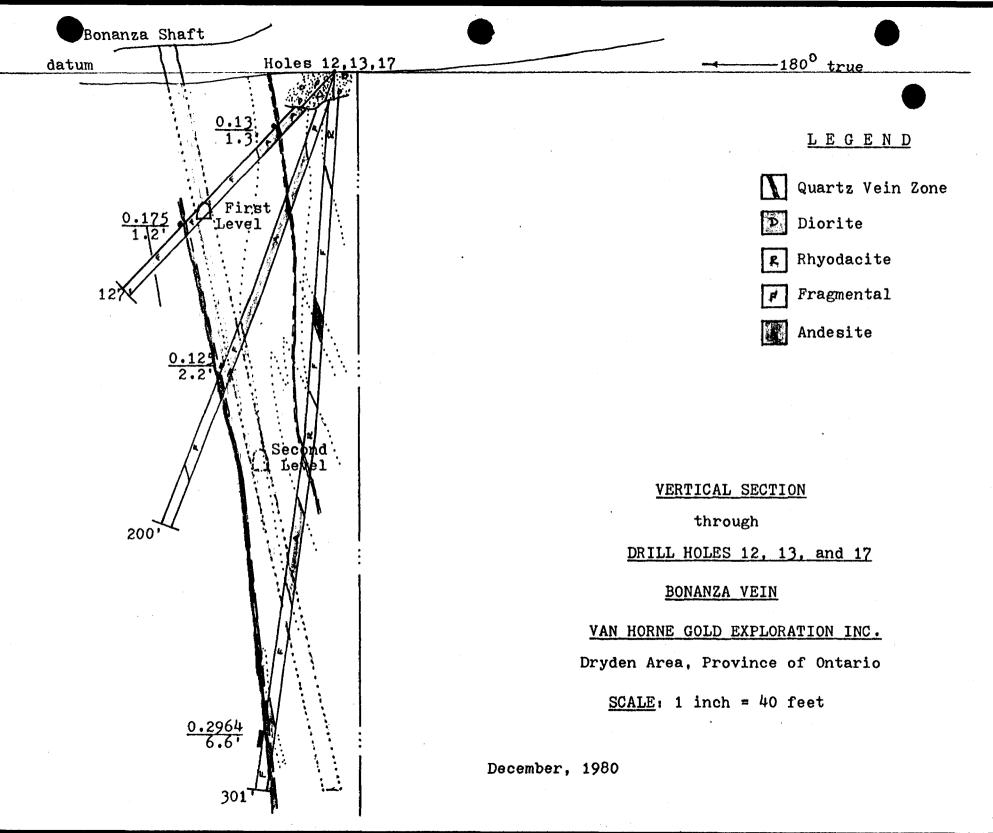
	Van Horne Gold Exploration Inc. PROPERTY Van Horne Twp., Dryden Area, Ontario PAGE 1(of 1)							
LOCATION	Bonanza Vei	in. (Same s	setup BEARING 180° true HOLE NO. 21					
LOGGED BY	H.J.Hodge	as no						
STARTED	December 41		cond TESTS (CORRECTED)					
FINISHED	December 51		207' = 65°					
CASING	Pulled							
CORE SIZE	AQ							
FROM	то		DESCRIPTION					
0.0	2.0	CASING						
2.0	24.0	FRAGMENTAL	Andesitic. Fine tuffaceous matrix, with scattered fragments to 2".					
	~		Moderately sheared at 40° to core. Carbonatized sections from 9.0 - 10.0, and 11.8 to 12.2'.					
24.0	41.4	ANDESITE	Massive. Sharp 'in' contact at 20° to core.					
41.4	44.6	RHYOLITE? BRE	Scattered quartz stringers.					
44.6	69.0	ANDESITE	Dense. Medium-grained. Occasional quartz stringers @ 40 -45 to core.					
69.0	108.9	FRAGMENTAL	Andesitic. As before, with layering at 40° to core.					
108.9	121.3	RHYOLITE	Dark grey. Siliceous. Gradational 'in' contact.					
121.3	138.0	ANDESITE	Dense. Medium-grained. Sharp 'in' contract at 40° to core.					
			132.0 - 138.0: Moderate carbonate alteration.					
			130.6 - 130.9: Quartz Vein, with tourmaline.					
138.0	140.0	FRAGMENTAL	Andesitic. Some quartz phenocrysts.					
140.0	163.8	ANDESITE	Some mottled feldspar. Gradational 'in' contact. 156.3' - 157.0: Quartz - Vein with heavy carbonate.					
163.8	207.0	FRAGMENTAL	Vein with heavy carbonate.  Andesitic. More chloritic than above.					
	207.0	END of HOLE	$\overline{n}$					

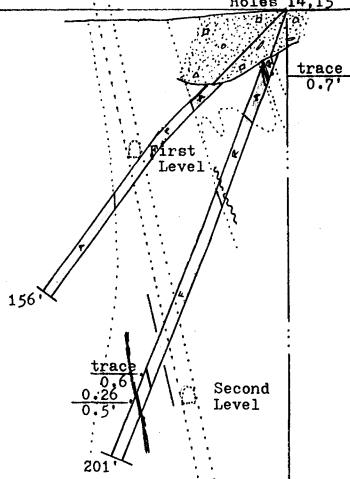
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		PROPERT		Gold Exploration Inc. wp., Dryden Area, Ontario PAGE 1 (of )	2)
	LOCATION	Bonanza Vei	ın	BEARING 180° true HOLE NO. 22	
	LOGGED BY	H.J.Hodge	ELEVATION	DIP -70° FINAL DEPTH 352.0 feet	
	STARTED	December 5	6th. 1980 (S	econd tests (corrected)	
	FINISHED	December 6	5th, 1980	Drill)	
	CASING	Pulled		352' = 50°	
	CORE SIZE	AQ		****	
	FROM	то		DESCRIPTION	
	0.0	4.0	CASING		_
	4.0	157.8	FRAGMENTAL	Andesitic. Some sections moderately to highly chloritic. Bedding 40° to core axis.	
		•		86.5 - 88.0: Siliceous zone, with minor Pyrite(-1%). 10% quartz(brecciated).	
	157.8	176.5	ANDESITE		
	176.5	222.1	FRAGMENTAL	Occasional quartz stringer to 1/16 inc	h.
				196.6-198.0: Moderate carbonate alteration.	
	222.1	256.5	RHYODACITE?	possibly a dyke. Cooled margin for 1.5' from contact. Fine to medium-grained. Massive. Moderately sericitized. Grey.	
Ì				228.0-230.0: Moderate carbonate	
				alteration. 231.6-233.3: Quartz stringers up to \$\frac{1}{2}\$ inch wide, across and parallel to core.	đ
				Finer grained and more grey and more sericitized at lower contact, with numerous quartz stringers to 1".	
	256.5	326.3	FRAGMENTAL	Sericitized and carbonatized?, with numerous white flecks (carbonate).  267.4-267.7: Quartz stringer with  Arsenopyrite & chlorite.  272.2- inch stringer.  272.9: inch stringer, with  Arsenopyrite & Sphalerite.  277.5-277.7: Quartz with minor  Pyrite, tourmaline.	
	326.3	332.9	ANDESITE		S
- 1	•	1	1		

DIPFINAL DEPTH	~~
FROM TO DESCRIPTION  332.9 340.8 FRAGMENTAL  Moderate pinkish carbonate or pote felspar alteration.  340.0 352.0 DYKE, APLITE?  Fine-grained. Pink. Fracture inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
FROM TO DESCRIPTION  332.9 340.8 FRAGMENTAL  Moderate pinkish carbonate or pote felspar alteration.  340.0 352.0 DYKE, APLITE?  Fine-grained. Pink. Fracture in inchination in the product of the potential inchination in the product of the product	
FROM TO DESCRIPTION  332.9 340.8 FRAGMENTAL  Moderate pinkish carbonate or pote felspar alteration.  340.0 352.0 DYKE, APLITE?  Fine-grained. Pink. Fracture in inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
TO DESCRIPTION  332.9 340.8 FRAGMENTAL  Moderate pinkish carbonate or pota felspar alteration.  340.0 352.0 DYKE, APLITE?  Fine-grained. Pink. Fracture in inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
332.9 340.8 FRAGMENTAL  Moderate pinkish carbonate or pota felspar alteration.  340.0 352.0 DYKE, APLITE?  Fine-grained. Pink. Fracture inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
Moderate pinkish carbonate or pota felspar alteration.  340.0  DYKE, APLITE?  Fine-grained. Pink. Fracture in the inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
felspar alteration.  340.0  DYKE, APLITE?  Fine-grained. Pink. Fracture in the inch quartz at contact.  342.0-343.0: Breccia Zone (Family 1988)	
Fine-grained. Pink. Fracture inch quartz at contact. 342.0-343.0: Breccia Zone (Fa	assi
½ inch quartz at contact. 342.0-343.0: Breccia Zone (Fa	
342.0-343.0: Breccia Zone (Fa	∍d.
352.0 END of HOLE	ault

Van Horne Gold Exploration Inc. PAGE 1 (Of 1) PROPERTY Van Horne Twp., Dryden Area, Ontario BEARING 180° true HOLE NO. 23 LOCATION Bonanza Vein. LOGGED BY Ross Kidd 106.0 feet ELEVATION ... December 6th, 1980 TESTS (CORRECTED) December 7th, 1980 FINISHED. none Pulled CASING AQ CORE SIZE FROM TO DESCRIPTION 4.0 0.0 CASING Well sheared @ 550 to core. 4.0 51.7 FRAGMENTAL 51.7 57.5 ANDESITE Dense. Medium to fine-grained. 57.5 58.5 BONANZA VEIN 50% Quartz-carbonate, with minor tourmaline and pyrite. 58.5 70.6 ANDESITE Dense. Fine-grained. 67.8'- 67.9': Quartz stringer. 76.2 70.6 PORPHYRY Oxidized and kaolinized locally. Considerable included andesitic material. Both contacts sharp, and at 60° to core. 76.2 99.0 ANDESITE Well sheared @ 60° to core. 106.0 99.0 FRAGMENTAL 106.0 END of HOLE

	<del></del>		
	PROPERT	Van Horne Y Van Horne	e Gold Exploration Inc. Twp., Dryden Area, Ontario PAGE 1 (of 1)
LOCATION BO	nanza Veir	. (Same	setup BEARING 180° true HOLE NO. 24
F	Ross Kidd	00 1	Hole 23)
	December 61		
			TESTS (CORRECTED)
INI SALD	December 71	in, 1900	176' = 75°
CASING	Pulled		
CORE SIZE	AQ		
FROM	то		DESCRIPTION
0.0	2.0	CASING	
2.0	23.0	ANDESITE	
23.0	46.9	FRAGMENTAL	Well sheared @ 40° to core.
46.9	111.0	PORPHYRY	Sharp upper contact @ 40° to core. Numerous feldspar phenocrysts in the first 13 feet, then grading into a dense reddish medium-grained rock. Occasional quartz-carbonate veinlet @ 40-50° to core. Gradational lower contact.
			103.0 - 104.2': Quartz-rich (or vein) section, minor Pyrite.
111.0	169.0	ANDESITE	Dense. Medium-grained. Slight pinkish hue extending to 129'. Occasional quartz veinlet @ 60° to core. Sheared in last 10 feet.
			117.5': 2" quartz-tourmaline vein.
			157.0': 2" quartz-carbonate vein.
·			168.8': 1" quartz stringer.
169.0	176.0	PORPHYRY	Sharp upper contact @ 55° to core. Reddish. Medium-grained.
			170.7': ½ inch quartz stringer.
	176.0	END of HOLE	
		}	₩ <u>O</u>
			HOLE NO.
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LEGEND

Quartz Vein Zone

R Rhyodacite

F Fragmental

Andesite

VERTICAL SECTION

through

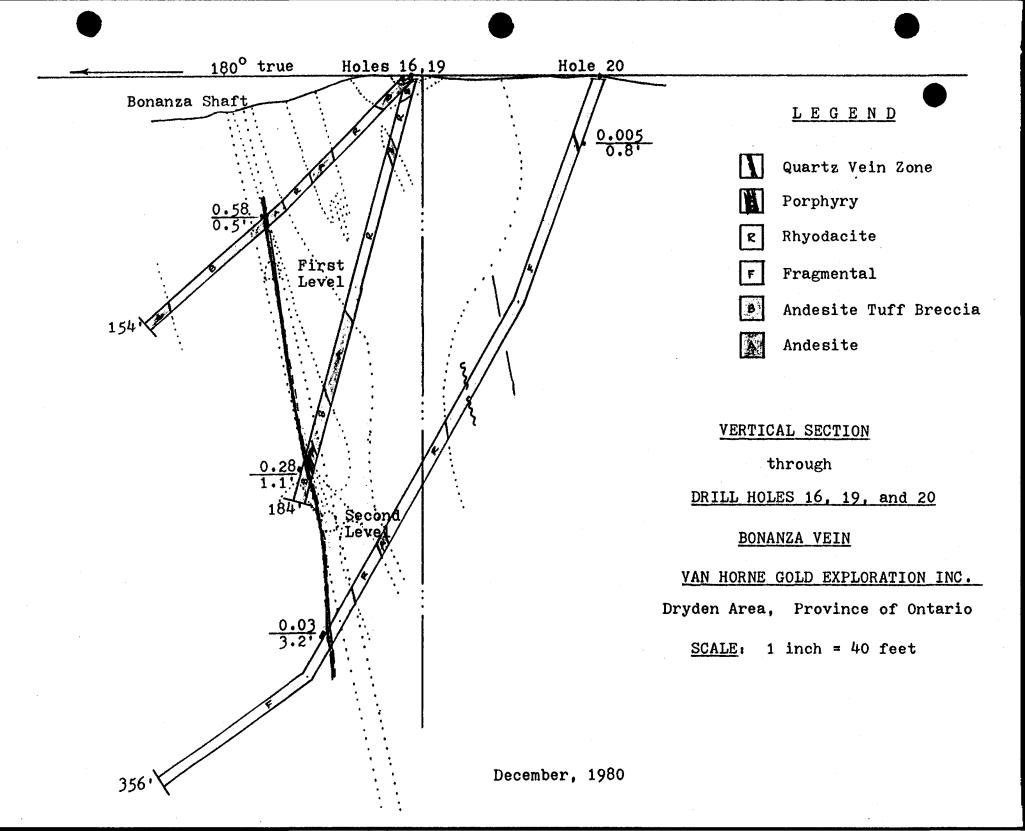
DRILL HOLES 14 and 15

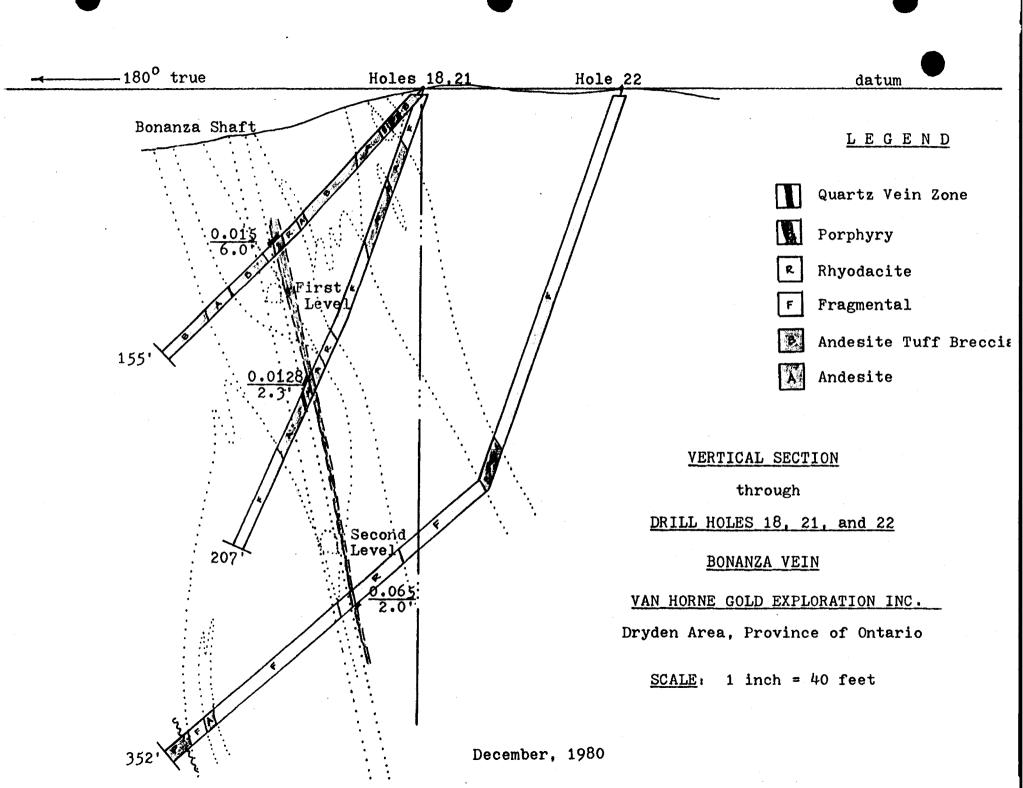
BONANZA VEIN

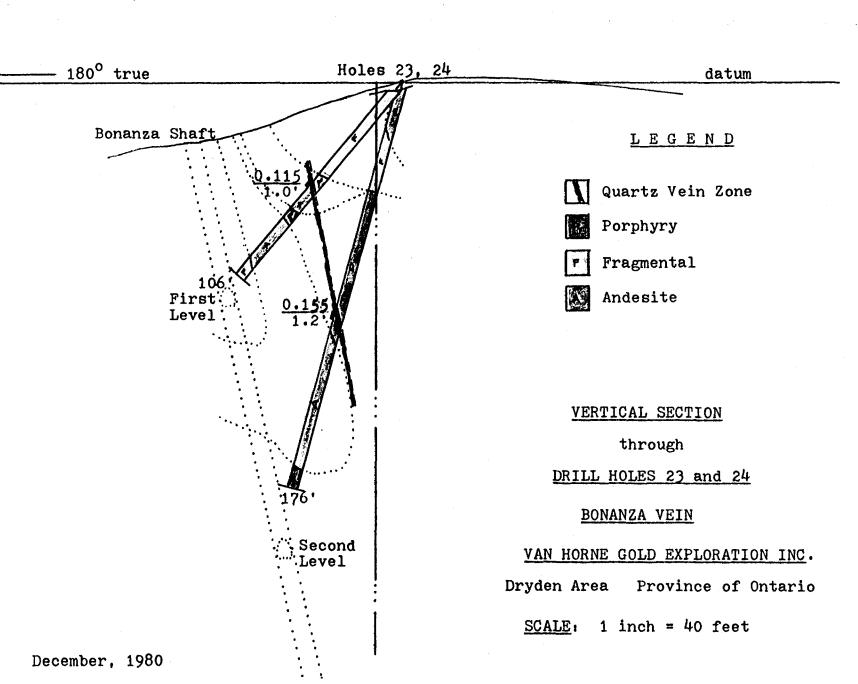
VAN HORNE GOLD EXPLORATION INC.

Dryden Area, Province of Ontario

SCALE: 1 inch = 40 feet







#### APPENDIX TWO

### SAMPLE LIST

Holes 1 to 11 - REDEEMER VEIN

Holes 12 to 24 - BONANZA VEIN

### ASSAY CERTIFICATES

Bell-White Analytical Laboratories Ltd. PO. Box 187, Haileybury, Ontario.

### SAMPLE LIST

DIAMOND DRILL HOLES 1 to 24, VAN HORNE GOLD EXPLORATION INC., DRYDEN AREA, ONTARIO

### REDEEMER VEIN

SAMPLE No.	HOLE No.	Foo From	TAGE TO	CORE LENGTH (FEET)	GOLD (OZS/TON)
. 1	1	77.5	79.0	1.5	0.025
2		79.0	80.5	1.5	0.01
3		80.5	84.5	4.0	0.005
4		84.5	88.8	4.3	0.01
WEIGHTED AVERAGE	1	77.5	88.8	11.3	0.01
5	2	177.5	181.5	4.0	TRACE
6		181.5	186.0	4.5	0.185
7		186.0	189.1	3.1	0.035
8		189.1	192.0	2.9	0.01
9		192.0	195.9	<b>3.</b> 9	0.015
WEIGHTED AVERAGE	2	181.5	192.0	10.5	0.092
10	3	190.2	192.4	2.2	0.005
11		205.8	207.0	1.2	Trace
12		271.2	272.7	1.5	Trace
13		286.0	288.0	2.0	0.005
14		359.6	360.6	1.0	Trace

## SAMPLE LIST (CONT'D)

### REDEEMER VEIN

NO.	HOLE No.	FOOT/ FROM	AGE TO	CORE LENGTH (FEET)	GOLD (OZS/TON)
15	4	31.0	35.0	4.0	Trace
16		<b>3</b> 5.0	39.0	4.0	Trace
17	-	<b>3</b> 9.0	42.0	3.0	Trace
18		42.0	45.3	3.3	0.005
19		45.3	46.0	0.7	0.005
WEIGHTED AVERAGE	4	31.0	46.0	15.0	0.0013
20		157.0	161.0	4.0	Trace
21	5	65.2	66.0	0.8	Trace
22	•	80.4	81.0	0.6	Trace
23		84.8	85 <b>.</b> 6	0.8	Trace
	-				
24	6	188.0	190.8	2.8	Trace
25		190.8	193.6	2.8	0.01
26		193.6	196.6	3.0	Trace
27		196.6	200.8	4.2	0.005
28		200.8	203.8	3.0	Trace
29		203.8	206.7	2.9	Trace
30		206.7	208.0	1.3	Trace
WEIGHTED AVERAGE	6	188.0	208.0	20.0	0.0024

SAMPLE LIST (cont'd)

Van Horne Gold Exploration Inc., Dryden Area, Ontario REDEEMER VEIN

Sample No.	Hole No.	Foo From	otage To	<u>Core</u> <u>Length</u> (feet)	Gold ozs/ton	Silver ozs/ton
31	7	36.0	41.0	5.0	Trace	Trace
32	_	41.0	46.0	5.0	Trace	Trace
33		153.5	155.0	1.5	Trace	Trace
34		158.7	160.5	1.8	Trace	Trace
35	8	95.0	100.0	5.0	Trace	Trace
36		100.0	105.0	5.0	0.015	0.02
Weighted Average	8	95.0	105.0	10.0	0.0075	0.01
37	9	146.0	151.0	5.0	Trace	Trace
. 38		151.0	158.2	7.2	Trace	Trace
39		158.2	163.2	5.0	Trace	Trace
40	10	305.7	306.0	0.3	Trace	Trace
41	11)	331.0	334.0	3.0	0.025	0.04
42		334.0	337.0	3.0	Trace	Trace
Weighted Average	11)	331.0	337.0	6.0	0.0125	0.02

(End of Drilling on Redeemer Vein)

### S A M P L E L I S T (cont'd)

Van Horne Gold Exploration Inc., Dryden Area, Ontario

### BONANZA VEIN

		<u>D</u>	UNANZA VEIN			
Sample No.	Hole No.	From Fo	otage <u>To</u>	Core Length (feet)	Gold ozs/ton	Silver ozs/ton
43	24)	156.8	157.0	0.2	Trace	Trace
44		117.3	117.5	0.2	Trace	Trace
45		103.0	104.2	1.2	0.155	0.05
46	23)	57•5	58.5	1.0	0.115	0.07
47	21)	129.6	130.6	1.0	0.005	0.02
48		130.6	130.9	0.3	0.065	0.03
49	,	130.9	131.9	1.0	0.005	Trace
50		156.3	157.0	0.7	Trace	Trace
Weighted Average	21)	129.6	131.9	2.3	0.0128	0.0126
51	(22)	86.5	88.0	1.5	Trace	Trace
52		231.6	233.3	1.7	Trace	Trace
59		247.8	249.8	2.0	0.065	0.04
	_					
53	18	86.4	87.4	1.0	0.005	Trace
54		87.4	87.9	0.5	Trace	Trace
55		87.9	90.2	2.3	Trace	Trace
56		90.2	90.7	0.5	Trace	Trace
57		90.7	92.4	1.7	0.05	0.02
58		78.1	79.1	1.0	0.04	0.02
Weighted Average	(18)	86.4	92.4	6.0	0.015	0.0056

S A M P L E L I S T (cont'd)

Van Horne Gold Exploration Inc., Dryden Area, Ontario
BONANZA VEIN

Sample No.	<u>Hole</u> <u>No.</u>	Foo- From	tage <u>To</u>	Core Length (feet)	Gold ozs/ton	Silver ozs/ton
60	20	28.3	29.1	0.8	0.005	Trace
62		256.3	259•5	3.2	0.03	0.02
61	15)	165.0	165.6	0.6	Trace	Trace
63		27.2	27.9	0.7	Trace	Trace
64		178.0	178.5	0.5	0.26	0.08
65	17	276.0	277.4	1.4	Trace	Trace
66		277.4	279.4	2.0	0.75	0.24
67		279.4	280.9	1.5	0.02	0.04
68		280.9	281.3	0.4	0.52	0.11
69		281.3	284.0	2.7	0.015	0.04
Weighted Average	17)	277.4	284.0	6.6	0.2964	0.1153
70	13)	57•3	58.3	1.0	Trace	0.02
71	_	124.0	125.0	1.0	0.03	Trace
72		128.8	131.0	2.2	0.125	0.11
73	(12)	33.0	34.3	1.3	0.13	0.27
74		89.0	90.2	1.2	0.175	0.07

### S A M P L E L I S T (cont'd)

Van Horne Gold Exploration Inc., Dryden, Ontario

### BONANZA VEIN

Sample No.	No.	From	Footage <u>To</u>	<u>Core</u> <u>Length</u> (feet)	Gold ozs/ton	Silver ozs/ton
75	16)	43.8	44.2	0.4	0.03	0.07
76		84.5	84.9	0.5	0.58	0.09
77		146.3	146.5	0.2	0.02	0.05
78	19	78.1	78.7	0.6	0.01	0.02
79		168.2	169.3	1.1	0.28	0.05

(End of Drilling on Bonanza Vein)



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## Certificate of Analysis

NO. 30020

DATE: November 24, 1980.

SAMPLE(S) OF: Core(9)

RECEIVED: November 1980.

SAMPLE(S) FROM: Mr. Ross Kidd, 81 Highbourne Road, Toronto, Ont.

Sample No.	Oz. Gold
1	0.025
2	0.01
3	0.005
4	0.01
5	Trace
6	0.185
7	0.035
8	0.01
9	0.015

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### Certificate of Analysis

NO. 35573

DATE: December 3, 1980

SAMPLE(S) OF: Core(5)

RECEIVED: November 1980

SAMPLE(S) FROM: Mr. Ross Kidd, 81 Highbourne Road, Toronto, Ontario.

Sample No.	Oz. Gold
10	0.005
11	Trace
12	Trace
13	0.005
14	Trace

BELL-WHITE ANALYTICAL LABORATORIES LTD.



IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-SATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



# Bell-White analytical laboratories Ltd.

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TEL: 672-3107

### Certificate of Analysis

NO. 36898

DATE: December 11, 1980

SAMPLE(S) OF: Core(16) Rock(4)

RECEIVED: December 1980

SAMPLE(S) FROM: Mr. Ross Kidd, 81 Highbourne Road, Toronto, Ontario.

Sample No.	Oz. Gold
15	Trace
16	Trace
17	Trace
18	0.005
19	0,005
20	Trace
21	Trace
22	Trace
23	Trace
24	Trace
25	0.01
26	Trace
27	0.005
28	Trace
29	Trace
30	Trace

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## Certificate of Analysis

NO. 39513

DATE: Decen

December 31, 1980.

SAMPLE(S) OF: Core (49)

RECEIVED: December 1980.

SAMPLE(S) FROM: Mr. Ross Kidd, 81 Highbourne Rd., Toronto, Ontario.

Sample No.	Oz. Gold	Oz, Silver	Sample No.	Oz. Gold	Oz, Silver
31	Trace	Trace	<b>5</b> 6	Trace	Trace
32	Trace	Trace	57	0.05*	0.02
33	Trace	Trace	58	0.04*	0.02
34	Trace	Trace	59	0.065*	0.04
35	Trace	Trace	60	0.005	Trace
36	0.015	0.02	61	Trace	Trace
37	Trace	Trece	62	0.03*	0.02
38	Trace	Trece	63	Trace	Trace
39	Trace	Trace	64	0.26*	0.08
40	Trace	Trace	65	Trace	Trace
41	0.025*	0.04	66	0.75*	0.24
42	Trace	Trace	67	0.02	0.04
43	Trace	Trece	68	0.52*	0,11
44	Trace	Trace	69	0.015	0.04
45	0.155*	0.05	70	Trace	0.02
46	0.115*	0.07	71	0.03	Trace
47	0.005	0.02	72	0.125*	0.11
48	0.065*	0.03	73	0.13*	0.27
49	0.005	Trace	74	0.175	0.07
50	Trace	Trece	75	0.03	0.07
51	Trace	Trece	76	0.58*	0.09
52	Trace	Trace	77	0.02	0.05
53	0.005	Trace	78	0.01	0.02
54	Trace	Trace	79	0.28*	0.05
85	Trace	Tence		V . #V	-,

<sup>\*</sup> Checked.

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#### APPENDIX THREE

# TONNAGE CALCULATIONS BONANZA VEIN

Tonnage Block	Slope Length (feet)	True Width (feet)	<u>L x W</u>	Assay (ozs/ton)	LxWxA
Α	30	0.8	24.0	0.115	2.76
· B	65	0.5	32.5	0.155	5.0375
C	85	0.4	34.0	0.58	19.72
D	90	0.5	45.0	0.28	12.60
E	65	1.0	65.0	0.175	11.375
F	105	1.1	115.5	0.125	14.4375
G	115	2.1	241.5	0.2964	71.58
H	80	0.25	20.0	0.26	5.20
	635		577.5		142.71

$$A = 30 \times 0.8 \times 90 = 180 \text{ tons}$$

$$B = 65 \times 0.5 \times 90 = 244 \text{ tons}$$

$$C = \frac{105 \times 0.4 \times 100}{12} = 350 \text{ tons}$$

$$D = 90 \times 0.5 \times 100 = 375 \text{ tons}$$

$$E = \frac{65 \times 1.0 \times 100}{12} = 542 \text{ tons}$$

$$F = \frac{105 \times 1.1 \times 100}{12} = 963 \text{ tons}$$

$$G = 115 \times 2.1 \times 100 = 2013 \text{ tons}$$

$$H = 80 \times 0.25 \times 100 = 167 \text{ tons}$$

TOTAL INDICATED
TONNAGE .....4,834 tons

(GROSS VALUE @ \$600 Gold =  $4.834 \times 0.2471 \times $600 = $716,689 \text{ Can.}$ )

