

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT
ON
VINE NO. 17 CLAIM
GROUP VINE 12 and 17 CLAIM
NTS 82G

Fort Steele Mining Division

APRIL 1979

D.D. Hole V-79-1

Latitude: $115^{\circ} 48' 30''$

Longitude: $49^{\circ} 25' 30''$

Report by:

• • G.L. WEBBER
Geologist

Kootenay Exploration
2450 Cranbrook Street
Cranbrook, B.C.
VIC 3T4

Under the supervision of:

E.A.U. PARVIAINEN
Geologist

MINERAL RESOURCES BRANCH ASSESSMENT REPORT 7677 NO. _____
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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

VINE GROUP 12

Fort Steele Mining Division

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GENERAL STATEMENT

This report describes the results and expenditures relating to diamond drilling on the Vine No. 17 claim.

Diamond drilling was performed during April 1st to 31st, 1979.

Total expenditures relating to this diamond drill program amounted to \$64,140.

It is requested that \$64,000 be applied as follows:

Vine 12 (20 units) at \$200 - 8 years. . . .	\$ 32,000
Vine 17 (20 units) at \$200 - 8 years. . . .	32,000
	<u>\$ 64,000</u>

INTRODUCTION

General

One HQ diamond drill hole, totalling 544.51 metres was drilled to test for Pb-Zn mineralization and to obtain information on stratigraphy. This hole was collared on April 7th, 1979 and completed April 22nd, 1979.

D.D. Hole V-79-1: intersected traces of Pb-Zn parallel to bedding between 467.02 and 467.41 metres. This interval contained 3.55% disseminated Fe, 127 ppm Pb and 2091 ppm Zn from 467.02 to 467.41 metres.

The drill program was under the direction of D.L. Pighin and supervised by E.A.U. Parviainen.

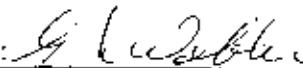
Location and Access

The centre of the claim group is approximately 10 km SSW of Cranbrook, B.C. Access to the drill site is good via secondary gravel roads leading from Highway 3/95 and up Peavine Creek. The elevation of the claim group ranges from 935 to 1000 metres.

Sperry Sun Single Shot Test of D.D.H. V-79-1

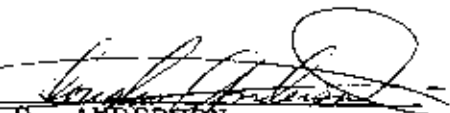
At collar bearing 152° Az. -70°
At 150.6 m bearing 155° Az. -71°
At 312.4 m bearing 153° Az. -70°
At 439.63 m bearing 157° Az. -71°

SUBMITTED BY:



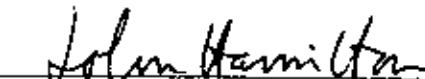
G.L. WEBBER
Geologist

ENDORSED BY:



D. ANDERSON
Geologist, P. Eng.

APPROVED FOR
RELEASE BY:



J.M. HAMILTON, P.Eng.
Chief Geologist
Kimberley

EXHIBIT "A"
STATEMENT OF EXPENDITURES
VINE NO. 12 CLAIM GROUP

Diamond Drilling - Indirect

Salaries (field):

D.L. Pighin (Geologist) 15 days @ \$106/day	\$ 1,590
E.A.U. Parviainen (Geologist) 3 days @ \$130/day	390

Salaries (office)

G.L. Webber (Geologist) report & map preparation: 3 days @ \$114/day	342
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Diamond Drilling - Indirect - Drill Support

Core Boxes - E.G. Whalley & Sons Ltd., Burnaby, B.C.	514
Transportation - 4 x 4 1/2 T 18 days @ \$600/month including gas	348

Mobilization - Drill Site - Access

Harvey Bombardier, TD 15B 86.5 hrs. @ \$35/hr.	3,027
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Mobilization - Vancouver/Cranbrook.

Longyear Canada Inc. 70 hrs @ \$24.50/hr.	1,715
Henderson Heavy Hauling, Cranbrook, Demobilization	152
	\$ 8,078

Diamond Drilling - Direct

Longyear Canada Inc., Box 330, North Bay, Ont, P1B 8H6	<u>\$56,062</u>
D.D. Hole V-79-1: 544.51 m @ \$102.96	

Total Expenditures - Indirect \$ 8,078

Total Expenditures - Direct \$ 56,062

\$ 64,140

This is Exhibit "A" to the Statutory Declaration of G.L. Webber declared before me this 5 day of September, 1979.

M. G. REID
COMMISSIONER FOR TAKING
AFFIDAVITS IN BRITISH COLUMBIA

A Commissioner for taking Affidavits
for the Province of British Columbia.

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAM
CARRIED OUT ON THE VINE 17 MINERAL CLAIM
PEAVINE CREEK AREAin the Fort Steele Mining Division
of the Province of British Columbia

More Particularly N.T.S. 82G/5W

A F F I D A V I T

I, G.L. WEBBER, of the City of Kimberley, in the Province of British Columbia, make Oath and say:

1. That I am employed as a Geologist by Cominco Ltd. and as such, have a personal knowledge of the facts to which I hereinafter depose:
2. That annexed hereto and marked as Exhibit "A" to this my Affidavit is a true copy of expenditures incurred on a diamond drill programme, on the Vine 17 Mineral Claim.
3. That the said expenditures were incurred between the 1st day of April, 1979 and the 31st day of April, 1979, for the purpose of mineral exploration on the above noted claim.

Sworn Before Me at Cranbrook)
in the Province of British Columbia,)
this 18 day of September, 1979.)

G.L. Webber
G.L. WEBBER

M. G. REID
COMMISSIONER FOR TAKING
AFFIDAVITS IN BRITISH COLUMBIA
A Commissioner for taking Affidavits
in the Province of British Columbia.)

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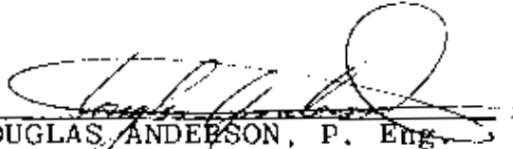
EXPLORATION DIVISION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

G.L. WEBBER has personally conducted many types of mineral exploration work for Cominco Ltd. over the last twenty-five years.

I consider him well qualified to prepare this report.


DOUGLAS ANDERSON, P. Eng.
Geologist

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1
Commenced	April 7, 1979	Location	VINE No. 17	Tests at	439.6 150.0m 312.4m
Completed	April 22, 1979	Core Size	HQ	Corr. Dip	-79°
Co-ordinates				True Brg at collar	152° Az. Logged by D.L. PIGHIN
Objective	To test for stratiform Pb-Zn Mineralization			% Recov.	90%
				Date	April 8, 1979

Claim	T Brg.	Collar Dip	Elev.	Length	Wash No.
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Footage	Description	Sample No.	Length	Analysis
From	To		m	
0	2.10			
2.1	6.00			
6.0	10.53			
10.53	14.87			
14.87	19.0			
19.0	23.30			
23.30	27.54			
27.54	31.65			

Drill Hole Record



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Property	VINE	District		Hole No.	V-79-1
Commenced		Location		Test at	Hor. Comp
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Dip	Logged by
Objective				% Recov	Date

Clear
T Brg.
Cutter Dip
Elev.
Length
Hole No

Footage From To	Description	Sample No.	Length	Analysis
27.54 to 31.65	CONTINUED 31.20 to 31.65; wacke, 31.65 good dark and light grey laminations. 20 cm section; bedding to core 80°. Core recovery 100%.			
31.65 36.15	WACKE: Minor quartzitic wacke. Patches of granophyric alteration at 35.82m; minor brecciation and chlorite alteration, rare brown biotite alteration. Bedding to core 90°. Core loss .07 m.			
36.15 40.53	WACKE: Granophyric patch 2 to 3 cm in size at 37.10. Bedding to core 90°. Core loss - nil.			
40.53 44.20	WACKE: Shear zone from 40.80 to 41.46. Shearing to core 32° and 50°; the former is dominantly 20 metres quartz filled breccia N.W. of shear. Bedding to core below shear 90° to core. Core loss .90 m.			
44.20 48.04	WACKE: 20 cm subwacke at 44.93. Dark grey to black, wacke cross-laminated in part; Pyrrhotite concretions rimmed by disseminated chalcocite at 45.66m. 2 cm in size, thin bands of brown biotite common. Bedding 80° to core; dominant fracture at 20° to core. Core loss - nil.			
48.04 52.11	WACKE: Brown biotite banding; thin (10 cm and 2cm) wacke convolutes structured beds at 48.53 and 49.80, convolute bed at 49.30 contains disseminated pyrrhotite.			

Drill Hole Record



Property V I N E District Fort Steele Hole No. V-79-1 3
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis	Clam	Y Brg.	Collar Dip	Elev.	Length	Sample No.
48.04 to 52.11	CONTINUED -- Dominant fracture 5° to core. Bedding to core 90°. Core recovery 100%.									
52.11 56.35	WACKE: Rare thin subwacke interbeds, rare convolute tops. Bedding to core 90°.									
56.35 60.0	WACKE: Rare interbeds of quartzwacke. 50.68 to 60.0 Green subwacke with good parallel white laminations. Bedding 90° to core. Dominant fracture 20° to core.									
60.0 64.52	WACKE: 60.0 to 62.3; minor subwacke interbeds. 62.3 to 62.8; green wacke lenses of subwacke. 62.8 to 64.5; mainly quartzitic wacke with thin interbeds of subwacke and wacke. Bedding to core 90°. Shear at 61.2. Shear 60.87 80° to core.									
64.52 68.63	WACKE: generally well laminated; commonly thinly-laminated, brown lignite banding common. Bedding 90° to core.									
68.63 72.89	WACKE: Thin-bedded in part. Bedding 90° to core. Cross laminated turbidite tops common.									
72.89 77.15	WACKE: Subwacke tops to 75.90.									

Drill Hole Record



Property VINE District Port Steele Hole No. V-79-1

Commenced _____ Location _____ Tests at _____ Hor. Comp. _____

Completed _____ Core Size _____ Core Dip _____ Vert. Comp. _____

Co-ordinates _____ True Brg. _____ Logged by _____

Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis
72.89 77.15	CONTINUED -- 76.90 to 77.04 laminated dark grey to light grey subwacke. 77.04 to 77.15 wacke.			
77.15 81.56	WACKE: 40 m core loss. Thin-bedded, thin subwacke interbeds. 79.0 to 79.83 fault - gauge well-developed. Upper portion mineralized by quartz and calcite veins; contain pyrite, fault zone strongly chloritized. Bedding to core 90° below the fault.			
81.56 85.0	WACKE: Interbedded subwacke.			
85.0 89.14	WACKE: Interbedded subwacke. Bedding 90° to core.			
89.14 93.44	WACKE: Generally with subwacke top. Subwacke beds generally parallel laminated. Bedding to core 90°. 2cm shear 90° to core at 89.55 m.			
93.44 97.25	WACKE: Thin interbeds; subwacke (turbidite tops).			
97.25 101.5	WACKE: Generally thin-bedded; subwacke interbeds; rare blobs of pyrrhotite; bedding to core 90°.			

Claim	Trig	Collar Dip	Elev	Length	Hole No	Sheet

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	5
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg.		Logged by
Objective				% Recov.		Date

Footage From To	Description	Sample No.	Length	Classm T Brg.	Collar Dip	Elev.	Length	W.P. No.	Shifter
01.58 105.70	<p> MEDIUM-BEDDED WACKE: Fair disseminated pyrrhotite from 102.0 to 102.35. Bedding to 85° </p>								
05.70 108.25	<p> WACKE: Interbedded subwacke. Bedding 85° to core. Shear at 108.6m to core? </p>								
09.25 113.12	<p> WACKE: Quartz vein 111.0 to 113.12. Mineralized by pyrite, pyrrhotite, rare chalcopyrite with abundant chlorite and sericite alteration. Vein to core 120 </p>								
13.12 117.18	<p> WACKE: From 118.0 to 116.30 Subwacke laminated. Bedding 90° to core </p>								
17.16 121.0	<p> THIN-BEDDED WACKE: Rare thin subwacke interbeds. </p>								
21.0 125.3	<p> WACKE: Interbeds of quartzitic wacke, rare thin beds of subwacke, some beds well parallel laminated. Bedding to core 90° </p>								
29.26 133.33	<p> WACKE: Rare thin-interbedded subwacke. Bedding to core 90°. </p>								
33.33 137.45	<p> WACKE: Interbedded laminated subwacke. Quartzitic wacke from 136.0 to 137.45. Bedding 85° to core </p>								
37.45 141.0	<p> WACKE: 137.45 to 140.0, thin-bedded subwacke, minor thin beds of wacke </p>								

Drill Hole Record



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Property	VINE	District	Fort Steele	Hole No.	V-79-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Dip	Logged by
Objective				% Recov.	Date

Claim
 Y Brg.
 Collar Dip
 Elev.
 Length
 Hole No.

Footage From	To	Description	Sample No.	Length	Analyses
141.0	144.87	WACKE to 141.46m. 141.46 to 144.87 thin-bedded wacke well-laminated, fair disseminated pyrrhotite. Bedding to core 80°. 142.37 to 143.2 breccia calcite matrix.			
144.87	147.3	MASSIVE WACKE and quartzitic wacke.			
147.3	152.7	SOLE SURVEYED at 150.6m Dip 71°, Az. 155°. WACKE: Very thin-laminated; thin-bedded wacke; 147.3 to 151.10. Rare small lenses of quartz wacke. 151.0 to 152.57 medium-to thin-bedded wacke.			
152.7	156.7	MEDIUM-BEDDED WACKE: Subwacke tops rare laminations.			
156.7	160.0	MEDIUM-BEDDED WACKE: Thin subwacke tops, poorly-laminated. Bedding to core 90°.			
160.0	163.77	MEDIUM-BEDDED WACKE: Thin subwacke tops; generally poorly-laminated.			
163.77	168.0	MEDIUM BEDDED WACKE: poorly-laminated 163.77 to 164.79. 164.79 to 165.29 Subwacke finely-laminated. 167.50 to 168.00 Wacke finely-laminated.			

Drill Hole Record



Property VINE District Fort Steele Hole No. V-79-1 7
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov _____ Date _____

Claim _____
 T Brg _____
 Collar Dip _____
 Elev. _____
 Length _____
 Hole No _____
 Sheet _____

Footage From To	Description	Sample No.	Length	Analysis
168.0 171.64	<p>THIN-BEDDED WACKE: 168.0 to 170.1.</p> <p>170.1 to 170.63 Green subwacke thin laminated.</p> <p>170.63 to 171.64 Thin-bedded wacke.</p> <p>At 168.50 quartz vein 1 cm thick; at 10 to core contains sparse sphaerite and pyrite.</p>			
171.64 175.74	<p>QUARTZITIC WACKE: 171.64 to 174.39 medium-bedded, very thin subwacke tops.</p> <p>174.39 to 174.69 thin-bedded wacke, very thin subwacke tops.</p> <p>174.69 to 175.74 wacke, badly broken core.</p> <p>Bedding to core 90°.</p>			
175.74 179.77	<p>QUARTZITIC WACKE: Medium-bedded, rare thin beds, very thin subwacke tops.</p> <p>178.0 to 178.35 thin-bedded wacke generally finely-laminated.</p> <p>Some cross laminations.</p> <p>178.35 to 179.77 medium-bedded wacke, thin subwacke tops.</p>			
179.77 183.8	<p>MEDIUM-BEDDED WACKE: 179.77 to 183.0 core thin subwacke tops.</p> <p>183.0 to 183.57 thin-bedded well-laminated wacke.</p> <p>Bedding to core 90°.</p>			
183.8 188.6	<p>CORE LOSS 1.03 m.</p> <p>183.8 to 188.1 medium-bedded wacke; 188.1 to 188.6 thinly-laminated, thin-bedded wacke.</p>			

Drill Hole Record



Property VINE District Fort Steele Hole No. V-79-1 8
 Commenced Location Tests at Hor. Comp.
 Completed Core Size Corr. Dip Vert. Comp.
 Co-ordinates True Brg. Logged by
 Objective % Recov. Date

Depth From	To	Description	Sample No.	Length	Analysis	Clam	T Brg.	Corlat Dip	Elev.	Length	Hole No	Sheet
88.6	192.3	MEDIUM-BEDDED WACKE.										
92.3	196.4	THIN-BEDDED WACKE: from 192.3 to 193.83. 193.83 to 195.12 quartzitic wacke; medium-bedded. 195.12 to 196.4 thin-bedded wacke interbedded finely-laminated subwacke.										
96.4	200.68	MASSIVE-BEDDED QUARTZITIC WACKE: 106.40 to 197.46. 197.46 to 198.17 medium-bedded wacke. 198.17 to 200.68 Generally thin-bedded wacke, very thin subwacke tops. Bedding to core 90°.										
200.68	204.36	MEDIUM-BEDDED WACKE: Rare laminations 200.68 to 203.26. 203.26 to 204.36 thin-bedded wacke; thin subwacke tops. Lithic - single clast at 203.25 2 cm x 1/2 cm. Lithic - single clast 3 cm x 1 cm at 203.0. Reddish-brown biotite alteration common generally.										
204.36	208.0	MEDIUM-BEDDED WACKE: Generally some fine lamination; thin, light gray subwacke tops; abundant reddish-brown biotite; pink subhedral garnets developed in concretions, disseminated pyrrhotite common less .05% in host areas.										

Drill Hole Record



Property VINE District Fort Steele Hole No. V-79-1 9
 Commenced _____ Location _____ Test at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Claim
 Y Brg.
 Collar Dip
 Elev.
 Length
 Hole No. Sheet

Feet	Description	Sample	Length	Analysis
From	To	No.		
208.0	213.0			
	MEDIUM-BEDDED WACKE: 208.0 to 208.90; core loss .88m. poorly-laminated, 208.90 to 211.88 quartzitic wacke massive bedded; poor lamination; rare subwacke top. 211.88 to 213.0; thin-bedded wacke; in spots abundant pink anhedral pink garnet.			
213.0	217.51			
	WACKE: Mainly thin-bedded, reddish-brown and grey, finely-laminated in part; with thin-to very thinly-laminated, greenish subwacke tops. Rare concretions with anhedral pink garnet, sericite development. Bedding to core 80°.			
217.57	221.73			
	THIN-BEDDED WACKE: reddish-grey, abundant anhedral pink garnet and sericite development, chlorite prophyroblasts and reddish-brown biotite. 220.42 to 221.73; massive quartzitic wacke.			
221.73	226.6			
	WACKE: Thin-bedded, finely-laminated in part, reddish-brown and grey wacke. light grey subwacke tops, that generally contain abundant disseminated pyrrhotite, sericitation well developed through wacke units. NOTE: From 225.22 to 225.40 quartzarenite.			
226.6	231.1			
	Same as 221.73 to 226.6.			

Drill Hole Record



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Property	VINE	District	Fort Steele	Hole No.	V-79-1	
Commenced		Location		Tests at		Hor. Comp.
Completed		Cora Site		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg.		Logged by
Objective				% Recov.		Date

Clam

Y Brg.

Collar Dip

Elev

Length

Hole No.

Sheet

Footage From To	Description	Sample No.	Length	Analysis
272.88 277.24	MEDIUM-BEDDED WACKE: Poorly laminated, thin dark grey subwacke tops.			
277.24 281.48	THIN-BEDDED WACKE: dark grey, commonly thinly-laminated, with interbeds of dark grey subwacke 2 cm to 10 cm thick. Minor pink garnets. 278.0 to 278.25 disseminated pyrrhotite, isolated 5mm massive pyrrhotitic patches with black biotite rims.			
281.48 286.25	MEDIUM-BEDDED QUARTZITIC WACKE: light green with rare thin subwacke tops; patches of pink anhedral garnet, chlorite porphyroblasts in subwacke... 283.24 to 285.25; medium-bedded dark grey wacke interbedded thin subwackes.			
286.25 289.6	THIN-TO MEDIUM-BEDDED WACKE: Turbidite couplets predominate with quartzitic wacke bases and subwacke tops. Tops up to 20 or 30% so overall composition is Wacke. Some bands of interturbidite subwacke. Chlorite porphyroblasts throughout and garnet locally. Evidence of slumping.			
289.6 294.0	Similar to 286.25 to 289.6. THIN-TO MEDIUM-BEDDED TURBIDITES: Overall wacke composition. Occasional thick turbidites. Rip-up clasts with folded laminations. Load casts. Fine chlorite plates throughout, especially in subwacke tops.			

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	Y-79-1	13
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates		True Brq		Logged by		
Objective		% Recov.		Date		

Footage		Description	Sample No.	Length	Analysis	Claim	T. Brq.	Collar Dip	Bore	Length	Hole No.
From	To										
294.0	298.4	MEDIUM-BEDDED WACKE: predominantly turbidites. Some thick beds. Approx. 10% tops short subsections of distal wacke/subwacke turbidites and very thinly bedded to laminated interturbidite subwacke. Garnet/chlorite/biotite alteration much more pervasive than 289.8 to 294.0.									
298.4	302.9	THIN-TO THICK-BEDDED QUARTZITIC WACKE turbidites. 5 or 10% subwacke and argillite tops. Subsets of intermixed distal turbidites and interturbidite subwacke. 300.7 to 300.9 marker-like bands? not sampled. Chlorite plates still pervasive but diminishing. Load casts.									
302.6	305.8	THIN-TO VERY THIN-BEDDED WACKE TURBIDITES with intervals of distal turbidites and some laminated interturbidite wacke/subwacke. 304.8 Marker-type laminations? Not sampled. Medium-bedded quartzitic wacke turbidites start at end of box. Truncated bedding indicates turbidite scouring.									
305.8	311.2	THIN TO THICK-BEDDED QUARTZITIC WACKE TURBIDITES. Average bedding thickness approx. 20 cm. Subintervals of finely laminated wacke -- may represent interturbidite material. Disseminated pyrite in base of some turbidites. --Pyrite alogovenelets.									

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	14
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Coordinates				True Brg		Logged by
Objective				% Recov.		Date

Footage From To	Description	Sample No.	Length	Grain T Brg.	Collar Dip	Elev.	Length	Moist. Brg.	Sheet
311.2 315.4	THIN-TO MEDIUM-BEDDED TURBIDITES: Overall wacke composition. 313.0 to 313.5 ore thick, medium-grained quartzitic wacke turbidites. Forms a distinctive subunit. Chlorite/Garnet alteration has decreased markedly over last few boxes. Disseminated pyrite common especially in bases of turbidites.								
315.4 319.6	THIN-TO MEDIUM-BEDDED WACKE TURBIDITES with some medium-thick bedded quartzitic wacke turbidites. Approx. 20% tops.								
319.6 323.9	MEDIUM-BEDDED QUARTZITIC WACKE TURBIDITES 15% tops. 321.8 to 322.7; thin to very thin-bedded distal turbidites. Wacke composition. Core to bedding 90°. Quartzitic wacke beds partially recrystallized and contain pervasive chlorite as fine disseminations (approx. 5% chlorite).								
323.9 328.3	MEDIUM-BEDDED QUARTZITIC WACKE TURBIDITES; with 10% tops down to 325.0m. Below this, predominantly thinly-bedded to thinly-laminated wacke. Wacke consists of mixed interturbidite subwacke, distal turbidites, and a few thicker quartzitic wacke turbidites.								
328.3 332.8	Down to 330.0m. Same as lower part of 323.9 to 328.3.								

Drill Hole Record



Property VINE District Fort Steele Hole No. V-79-1 15
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Dip _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Claim
Y Brg
Collar Dip
Elev.
Length
Hole No.

Footage From	To	Description	Sample No.	Length	Analysis
328.3	332.8	CONTINUED -- MEDIUM-BEDDED QUARTZITIC WACKE/WACKE turbidites with average of 15% taps and load casts below 330.8.			
332.8	337.0	INTERTURBIDITE SUBWACKE; down to 333.8 with a few distal turbidites. Below 333.8: predominantly thin- to medium-bedded quartzitic wacke turbidites. Quartzitic wacke turbidites contain rip-up clasts and occasionally distinctive coarse-grained basal portions which approach quartz arenite composition.			
337.0	341.2	THIN-BEDDED TO LAMINATED WACKE; Down to 338.9; overall composition may be close to subwacke. Mixture of interturbidite subwacke and distal turbidites. Below 338.9: thin- to thick-bedded quartzitic wacke turbidites. Average bedding thickness; 20 cm. 340.3 to 341.2: Quartz arenite beds.			
341.2	345.3	MEDIUM TO THIN-BEDDED QUARTZITIC WACKE; turbidites; with short subsections of laminated interturbidite subwacke and/or very thin-bedded wacke distal turbidites. Evidence of slumping. Some of the turbidites may approach Quartz Arenite composition. Core to bedding 90°.			

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	16
Commented		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg.		Logged by
Objective				% Recov		Date

Claim
 T Brg
 Collar Dip
 Elev.
 Length
 Hole No.
 Sheet

Footage From To	Description	Sample No.	Length	Analysis
345.3 349.6	THIN-TO MEDIUM-BEDDED QUARTZITIC WACKE turbidites with short subsections of wacke distal turbidites. 348.3 blotches of pyrrhotite with minor chalcopyrite.			
349.6 353.8	MEDIUM-BEDDED QUARTZITIC WACKE TURBIDITES and VERY THIN to THIN-BEDDED WACKE DISTAL turbidites. About equal proportions of each. Occasional pyrrhotite laminations.			
353.8 358.54	MASSIVE QUARTZITIC WACKE: 353.8 to 355.5 355.5 to 358: thin-bedded wacke thinly-laminated, thin subwacke tops. Disseminated pyrrhotite common. 358.0 to 358.54 - medium-bedded quartzitic wacke.			
358.54 362.93	MASSIVE-BEDDED QUARTZITIC, RARE THIN-BEDDED SUBWACKE, 358.54-to 360.74. 360.74 to 362.93 medium-bedded wacke, with thin to medium-bedded light grey subwacke tops.			
362.93 367.0	MEDIUM BEDDED WACKE; finely-laminated subwacke tops ranging in thickness from 1 cm to 10 cm. at 365.80 strong garnet alteration, pink subbedral. 366.0 to 367.0 generally thin-bedded wacke 1-cm to 10 cm subwacke tops.			

Scale
 Cont. Part
 of Date

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	17
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Op		Vert. Comp.
Co-ordinates				Trce Brg		Logged by
Objective				% Recov		Date

Footage From	To	Description	Sample No.	Length	Analysis	Clam	T. Brg.	Collar Dip	Elev.	Length	Min. Acc.	Sheet
367.0	371.54	MEDIUM-GRAINED QUARTZITIC WACKE. 367.0 to 367.40. 367.40 to 367.90 Thin-bedded wacke, subwacke interbeds. 367.90 to 368.10 Subwacke marker-type/ specimen taken for sawing. 368.10 to 368.95 Medium-bedded quartzitic wacke. 368.95 to 369.37 Thin laminated subwacke. 369.37 to 371.0 Massive quartzitic wacke. 371.0 to 371.54 Medium-bedded quartzitic wacke.										
371.54	375.87	THIN-BEDDED WACKE; laminated to thinly laminated, thin bedded subwacke interbeds. 373.80 to 374.30; medium-bedded wacke; 374.30 to 375.87 Medium-bedded wacke rare thin bedded. 372 to 372.20 strongly chloritized subwacke. 374.20 to 375.87 sericitization, brown biotization possible albicization? maybe silicification? disseminated pyrrhotite common.										
375.87	379.12	MEDIUM-BEDDED QUARTZITIC WACKE. 375.87 to 376.14. 376.14 to 376.82 thin-bedded wacke interbedded medium bedded subwacke; sericitized in part. 376.14 to 379.12 medium-bedded quartzitic wacke, subwacke tops; bedding to core 90°.										

Drill Hole Record



16

Property	VINE	District	Fort Steele	Hole No.	V-74-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg.	Logged by
Objective				% Recov.	Date

Footage From To	Description	Sample No.	Length	Analysis	Claim	T. Big.	Collar Dip	Elev.	Length	Scale
379.12 383.6	MEDIUM-BEDDED QUARTZITIC WACKE; Thin silicified subwacke tops, strongly sericitized in patches. 382.92 to 383.6; medium-bedded wacke interbedded subwacke, generally finely-laminated.									
383.6 387.76	MEDIUM-BEDDED QUARTZITIC WACKE. 383.6 to 383.89. 383.89 to 384.27 medium bedded wacke, graded. 384.27 to 385.18 medium-bedded subwacke with lenses and thin interbeds of wacke at 384.65, quartz veinlets containing pyrite and pyrrhotite. 384.27 to 385.54 medium-bedded wacke. 385.54 to 386.14 massive wacke. 386.14 to 387.76 medium-bedded wacke, thin subwacke tops.									
387.76 391.55	MEDIUM-BEDDED QUARTZITIC WACKE, SUBWACKE tops 387.76 to 388.0. 388.0 to 389.84 massive quartzitic wacke. 389.84 to 389.46 thin-bedded, laminated subwacke, very thin interbeds and lenses of wacke. 389.46 to 391.55 medium-bedded wacke, subwacke tops.									
391.55 396.52	MEDIUM-BEDDED SUBWACKE; 391.55 to 392.34 generally finely laminated, rare thin interbeds of wacke.									

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	19
Commenced		Location		Yards at		
Completed		Core Size		Corr. Dip		
Co-ordinates				True Brg		Logged by
Objective				% Recov		Date

Diam

r Brg

Collar Dip

Elev.

Length

Hole No

Sheet

Footage	Description	Sample No.	Length	Analysis
From	To			
391.55	396.52			
	CONTINUED --			
	392.34 to 394.0 medium-bedded quartzitic wacke.			
	394.0 to 396.52 thin-bedded? (broken core) laminated to finely laminated subwacke with rare thin interbed of wacke.			
395.52	399.50			
	SUBWACKE badly broken core at 395.52 to 397.85.			
	397.85 to 399.10 medium-bedded quartzitic wacke.			
	399.10 to 399.50 thin-bedded wacke 50% subwacke. (interbeds).			
	Core loss 50 cm, bedding to core 90°.			
399.50	405.2			
	THIN-BEDDED WACKE interbed subwacke 50/50 at 399.50 to 402.12,			
	402.12 to 404.6 massive quartzitic wacke, rare thin subwacke top.			
	404.6 to 405.2 thin bedded wacke interbedded subwacke.			
405.2	409.6			
	MEDIUM-BEDDED WACKE: 405.2 to 405.7.			
	405.7 to 406.35 massive quartzitic wacke; large subwacke clast at 405.88.			
	406.35 to 408.76; thin-bedded wacke interbedded subwacke 50% wacke.			
	50% subwacke approx.			
	408.76 to 409.6 massive quartzitic wacke broadly laminated, 1 cm quartz vein containing pyrrhotite.			

Drill Hole Record



Property VINE District Fort Steele Hole No. V-79-1 20
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ Trng. Org. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Feetage from _____ to _____	Description	Sample No.	Length	Analysis	Clam	T. Org.	Collar Dip	Elev.	Length	Rock No.	Sheet
409.6 413.83	MASSIVE QUARTZITIC WACKE; 409.6 to 410.44, 410.44 to 411.5 medium-bedded quartzitic wacke, 411.5 to 412.3 thin-bedded wacke interbedded subwacke from 412.10 to 412.35 chloritic wacke, contains abundant pyrrhotite as small massive patches and disseminations. 412.3 to 412.9 massive quartzitic wacke, 412.9 to 413.6 thin-bedded wacke and subwacke, very thin wacke interbeds, 413.6 to 413.83 thin-bedded wacke and subwacke.										
413.83 418.8	MEDIUM-BEDDED QUARTZITIC WACKE, thin subwacke tops. 414.61 to 415.65 thin to very thin-bedded subwacke with very thin wacke interbeds. 415.65 to 417.9 massive quartzitic wacke (very massive), 417.9 to 418.18 chloritic subwacke, with small lenses of wacke.										
418.18 421.0	MASSIVE QUARTZITIC WACKE. 419.0 to 419.61 thin bedded wacke, interbedded thin-bedded subwacke, generally laminated from 419.28 to 419.61, moderately abundant pyrrhotite containing chalcopyrite in specks, occurs as small massive irregular patches, disseminated along bedded and two small massive pyrrhotite laminae largest 1.5mm thick.										

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	31
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates		True Org		Logged by		
Objective		% Recov.		Date		

Clam	T. Br.	Collar Dip	Str.	Length	Hole No.	Sheet
------	--------	------------	------	--------	----------	-------

Footage	Description	Sample No.	Length	Analysis
From	To			
418.18	421.0			
	CONTINUED --			
	410.61 to 421.0 massive quartzitic wacke, cross-bedded in part, thin subwacke tops strongly sericitized in part, brownish-red biotite alteration?			
421.0	426.5			
	CORE LOSS 1 m.			
	MASSIVE QUARTZITIC WACKE, strongly sericitized, ruddish-brown biotite? alteration at 421.0 to 423.27.			
	423.27 to 426.5 medium-bedded reddish gray wacke interbedded laminated subwacke, rare thin interbeds of wacke.			
426.50	430.77			
	LAMINATED SUBWACKE, contains thin clastic dykes mineralized by pyrrhotite, with speck chalcocopyrite at 426.5 to 427.0.			
	427.0 to 430.77 medium-bedded wacke, generally thinly laminated, with interbeds of subwacke. From 427.8 to 428.22 pyrrhotite containing specks of chalcocopyrite occur as thin disseminated laminae (2 only seen in size) and as disseminations. Wacke beds highly sericitized, and generally thinly laminated.			
430.77	434.65			
	MEDIUM-BEDDED WACKE, THIN SUBWACKE TOPS at 430.77 to 431.46.			
	431.46 to 432.37 thin-bedded subwacke, laminated to finely laminated interbedded thin beds of wacke.			
	432.37 to 433.6 massive quartzitic wacke medium-grained.			

Drill Hole Record



22

Property	VIRE	District	Fort Steele	Hole No.	V-79-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Corr. Dip	Vert. Comp.
Co-ordinates				True Brg	Logged by
Objective				% Recov.	Date

Claim

T Brg

Collar Dip

Elev.

Length

Hole No.

Sheet

Feetage From	To	Description	Sample No.	Length	Analysis
430.77	434.65	CONTINUED -- 433.6 to 433.57 medium-bedded quartzitic wacke, 5 cm subwacke tops. 433.57 to 434.65 massive quartzitic wacke. Thin subwacke tops. 434.65 to 434.90 medium-bedded quartzitic wacke.			
434.65	439.4	MEDIUM-BEDDED QUARTZITIC WACKE. (20 cm core loss) at 434.65 to 435.04. 435.04 to 437.8 massive quartzitic wacke, appears to be one-bed (2.75m). Contains 2 cm QUARTZ - chlorite-biotite veins containing patches of pyrrhotite. 437.8 to 439.4 thin-bedded wacke, interbedded subwacke 10% of section; bedding to core 80°.			
439.4	443.17	THIN-BEDDED SUBWACKE, thin interbeds wacke 70% subwacke at 439.4 to 442.1. 442.1 to 443.17 medium-bedded quartzitic wacke, subwacke tops. NOTE: Surveyed at 439.63 157° az. -71°.			
443.17	447.67	MEDIUM-BEDDED WACKE interbedded subwacke at 443.17 to 445.03. 445.03 to 445.52 massive wacke. 445.52 to 446.34 thin-bedded wacke, interbedded subwacke. 446.34 to 447.67 medium-bedded wacke rare subwacke interbedded.			

Drill Hole Record



23

Property	VINE	District	Fort Steele	Hole No.	V-79-1
Commenced		Location		Tests at	Hor. Comp.
Completed		Core Size		Core Dip	Vert. Comp.
Co-ordinates				Trug Brg.	Logged by
Objective				% Recov.	Date

Clam

T Brg

Collar Dip

Elev.

Length

Hole No

Footage From	To	Description	Sample No.	Length	Analysis
447.67	451.76	MASSIVE QUARTZITIC WACKE at 447.67 to 448.8. 448.8 to 449.30 thin-bedded wacke, thin subwacke top. 449.30 to 449.87 subwacke structure, contain disc. pyrrhotite, rare chalcopyrite generally associated with sandy (arenaceous lenses). 449.87 to 450.25 thin-bedded subwacke with thin wacke interbeds. 450.25 to 451.06 single massive bed of quartzitic wacke. 451.06 to 451.76 thin-bedded subwacke, interbedded wacke 50/50.			
451.76	455.96	THIN-BEDDED WACKE wispy subwacke tops, weakly disseminated pyrrhotite at 451.76 to 452.23. 452.23 to 453.43 medium-bedded wacke. 453.43 to 455.06 thin-bedded subwacke flame structure tops, common, thin cross-laminated subwacke interbeds, minor disseminated pyrrhotite along bedding. Bedding to core 90° 455.50 shear 80° to core 2 cm gouge zones.			
455.96	459.10	MASSIVE QUARTZITIC WACKE: 455.96 to 457.76. 457.76 to 459.10 thinly-bedded, thin-laminated subwacke rare thin wacke interbeds. From 458.04 to 458.30 thin pyrrhotite laminations. .05% FeS.			

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	24
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg		Logged by
Objective				% Recor.		Date

Diam

T Brg

Collar Dip

Elev.

Length

Hole No. Shrink

Footage From	To	Description	Sample No.	Length	Analysis
459.10	464.20	THIN-BEDDED, VERY THINLY-LAMINATED SUBWACKE; very rare disseminated pyrrhotite, abundant cuboidal pyrite prophyroblasts between 462.5 and 462.8. At 461.2 3 cm gouge -90° to core.			
464.20	468.25	THIN-BEDDED, VERY THINLY-LAMINATED SUBWACKE. at 467.31 to 467.9 slump structure. band of subwacke contains an estimated 10% pyrrhotite; 2% sphalerite. A 1/2 cm calcite vein begins from this zone and continues in the core up to 467.0 m. It contains coarsely laminated reddish-brown and resinous sphalerite.			
468.25	472.3	THIN-BEDDED, THIN-LAMINATED SUBWACKE with rare lenticular thin beds of wacke. At 468.76 three thin pyrrhotite laminations. At 471.04 to 471.14 numerous very fine pyrrhotite laminations. At 472.03 to 472.23, thin lens of (1/2 cm to 1 cm) contains abundant disseminated pyrrhotite.			
472.3	476.3	MASSIVE SLUMP STRUCTURE WACKE at 472.3 to 472.86. 472.86 to 473.9 massive slump structure subwacke with wacke base contains relatively abundant disseminated pyrrhotite and nearly massive patches. Largest 1/2 cm in size. 473.9 to 476.3 thin-bedded wacke interbedded subwacke 50/50. small clast dykes contain abundant pyrrhotite.			

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	25
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg		Logged by
Objective				% Recov		Date

Feetage From	To	Description	Sample Nos.	Length	Analysis	Claim by Brg	Collar Dip	Flw.	Length	Hole No.	Sheet
476.3	480.79	MEDIUM-BEDDED WACKE interbedded subwacke, poorly laminated at 476.3 to 477.44. 477.44 to 480.79 thin-bedded, thinly-laminated subwacke, thin subwacke interbeds, some current structured tops.									
480.79	485.0	MEDIUM-BEDDED WACKE, subwacke interbedded contain disseminated pyrrhotite, small massive pyrrhotite patches. 481.84 to 482.85 thin-bedded subwacke, thin interbeds of wacke, disseminated pyrrhotite in subwacke (weak). 482.85 to 485.0 medium-bedded, finely laminated, in part wacke, interbeds subwacke range from thin to medium-bedded and contain patches of pyrrhotite.									
485.0	488.8	THIN-BEDDED WACKE interbedded subwacke at 485.0 to 485.36. 485.36 to 486.26 medium-bedded wacke thin interbeds subwacke. 486.26 to 488.8 thin-bedded wacke interbedded thin subwacke. Rare blebs of pyrrhotite.									
488.8	493.27	MEDIUM-BEDDED WACKE with subwacke interbeds with occasional thin beds of wacke.									
493.27	497.8	MEDIUM-BEDDED QUARTZITIC WACKE, thin subwacke interbeds.									

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	28
Commenced		Location		Tests at		Hor. Comp.
Completed		Core Size		Corr. Dip		Vert. Comp.
Co-ordinates				True Brg		Logged by
Objective				% Recov		Date

Footage From To	Description	Sample No.	Length	Analysis	Claim	T Brg	Collar Dip	Elev.	Length	Hole No	Sheet
497.8 501.75	MEDIUM-BEDDED WACKE thin subwacke interbeds at 497.8 to 499.20. 499.20 to 499.80 thin bedded wacke interbedded subwacke. 499.80 to 501.75 medium bedded wacke, thin subwacke interbeds; rare current laminations.										
501.75 506.0	MEDIUM-BEDDED WACKE, thin interbeds subwacke, rare thin discontinuous pyrrhotite laminations, some beds contain finely disseminated pyrrhotite.										
506.0 510.0	MEDIUM-BEDDED WACKE, rare thin beds of current laminated wackes, thin interbeds of subwacke, disseminated pyrrhotite generally occurs in finely laminated subwacke. Bedding to core 900.										
510.0 513.5	MEDIUM-BEDDED, FINELY-LAMINATED WACKE: thin subwacke interbeds; rare wacke beds, relatively abundant disseminated pyrrhotite, rare very thin pyrrhotite laminations.										
513.5 517.9	MEDIUM-BEDDED WACKE interbedded thin beds subwacke. 517.18 to 517.83 massive wacke, pyrrhotite, generally disseminated throughout section.										

Drill Hole Record



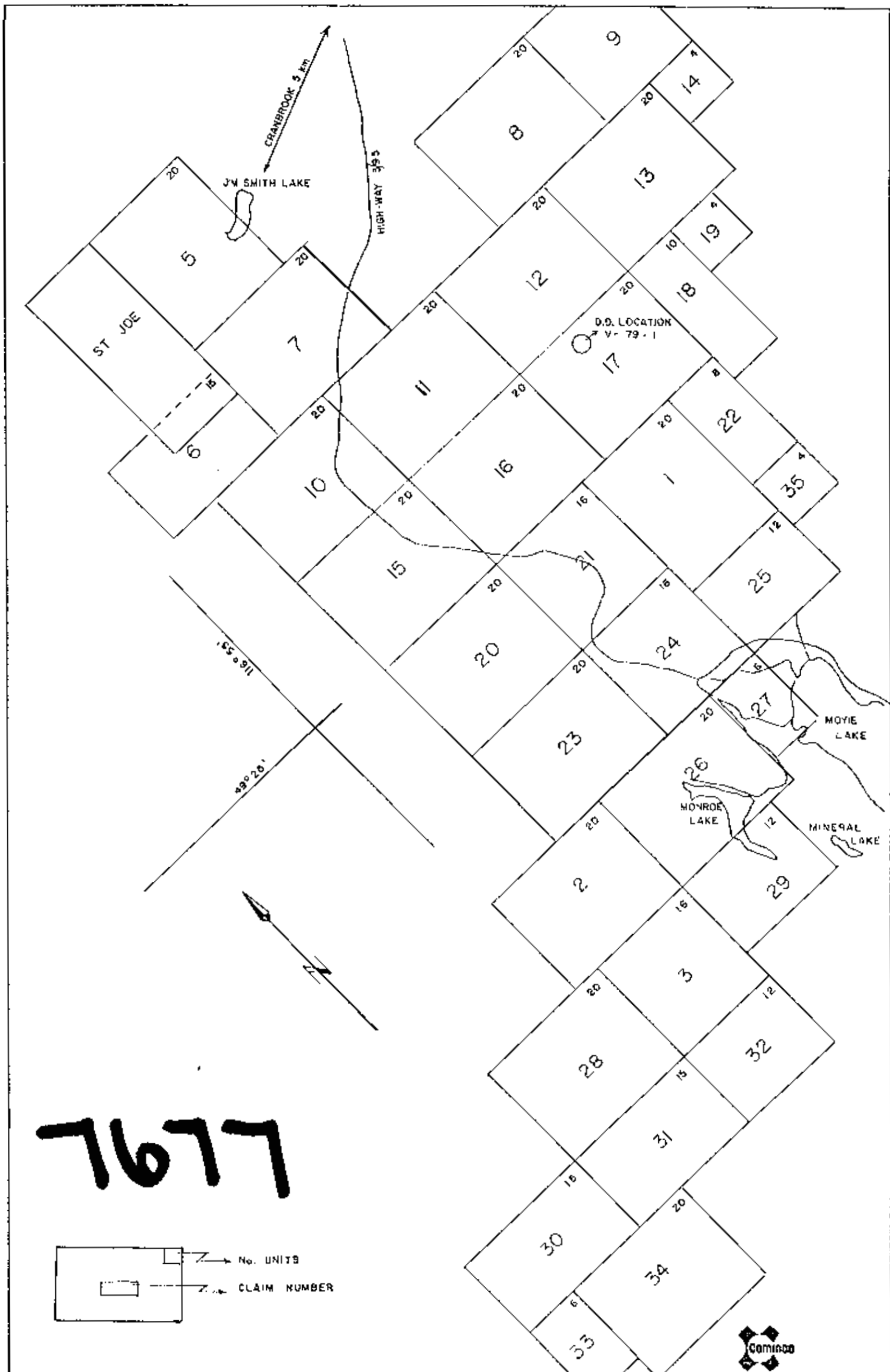
Property	VINE	District	For. Single	Hole No.	V-29-1	27
Commenced		Location		Tests at		Her. Comp.
Completed		Core Size		Core. Dip		Vert. Comp.
Co-ordinates				True Brg.		Logged by
Objective				% Recov.		Date

Footage From To	Description	Sample No.	Length	Analysis	Clim	Y Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
517.9 522.55	MEDIUM-BEDDED WACKE, thin interbeds of subwacke; rare thin beds of wacke, disseminated pyrrhotite throughout section occurs in subwacke and wacke units.										
522.55 526.66	BROKEN GROUND, BEDDED WACKE AND SUBWACKE fragments at 522.55 to 523.17. 523.17 to 524.2 medium-bedded fine-laminated, wacke interbedded thin subwacke. 524.2 to 526.66 medium-bedded quartzitic wacke thin subwacke interbeds. Disseminated pyrrhotite throughout.										
526.66 530.12	MEDIUM-BEDDED WACKE; thin interbeds subwacke, disseminated pyrrhotite from 526.63 to 528.05. Breccia, chlorite matrix, fragments generally siliceous chlorite contain pyrite, pyrrhotite and rare sphalerite.										
530.12 534.0	MEDIUM-BEDDED WACKE thin subwacke interbeds; rare thin bed of wacke. 532.80 to 533.23 massive medium-grained wacke. 533.23 to 534.0 medium-bedded wacke, disseminated pyrrhotite throughout section.										

Drill Hole Record



Property	VINE	District	Fort Steele	Hole No.	V-79-1	28						
Commenced		Location		Tests at		Hor. Comp.						
Completed		Core Size		Corr. Dip		Vert. Comp.						
Co-ordinates				True Dip		Logged by						
Objective				% Recov		Date						
Package		Description		Sample No.		Length		Analysis				
From	To											
534.0	537.66	MEDIUM-BEDDED WACKE, thin subwacke interbeds; disseminated pyrrhotite.										
537.68	541.84	MEDIUM-BEDDED WACKE, thin subwacke interbeds; pyrrhotite.			disseminated							
541.66	544.50	MEDIUM BEDDED WACKE; rare thin beds of wacke interbedded subwacke; disseminated pyrrhotite.										
END OF HOLE												
		CORE STORED AT SULLIVAN WINE PROPERTY, KIMBERLEY, B.C.										

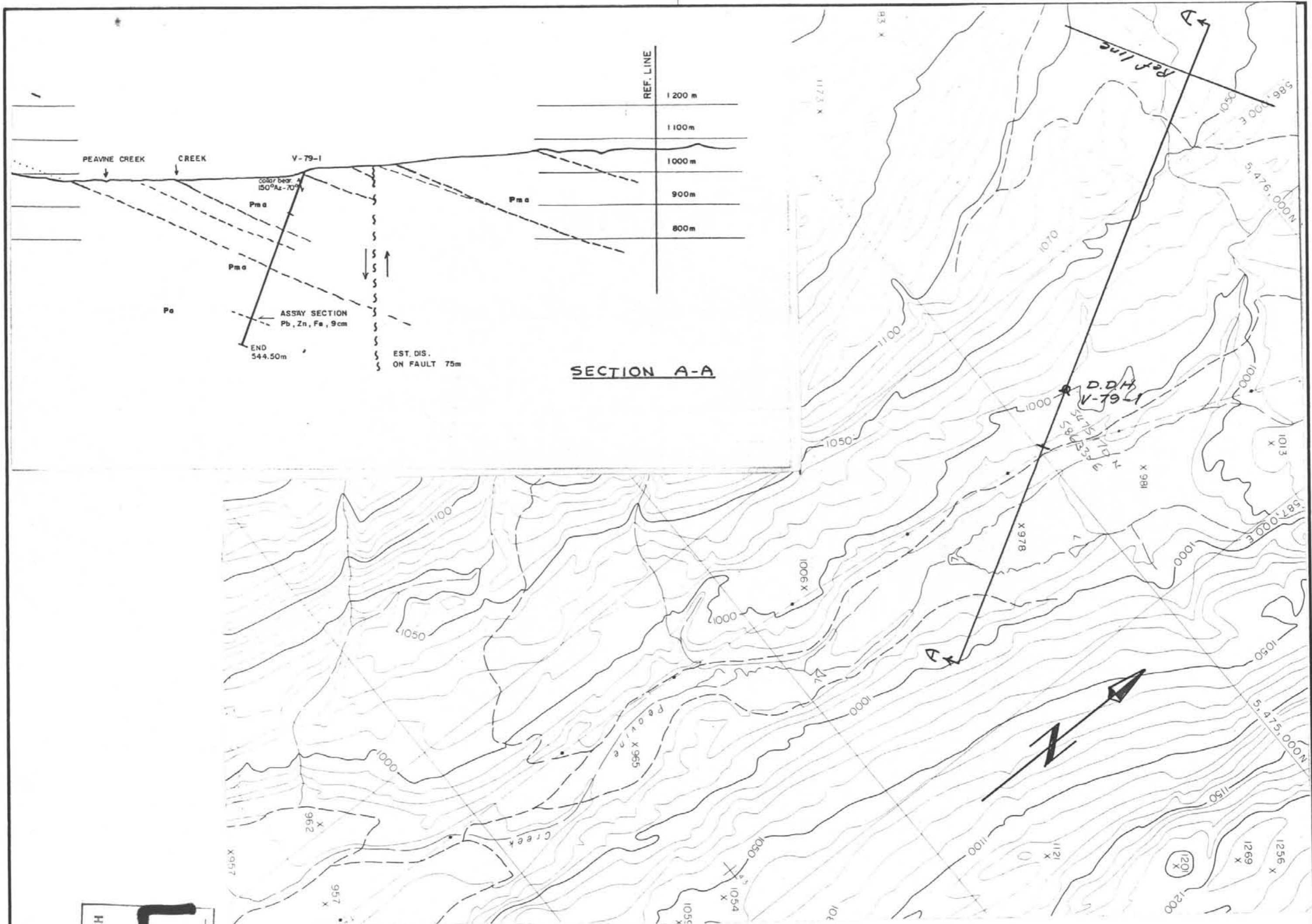


Drawn by:		Traced by: Z.K.	
Revised by	Date	Revised by	Date

VINE CLAIMS
LOCATION MAP

NTS : 82 G / 5

Scale: ^{approx.} 1 : 80,500 Date: SEPT. 9, 1979 Plate:



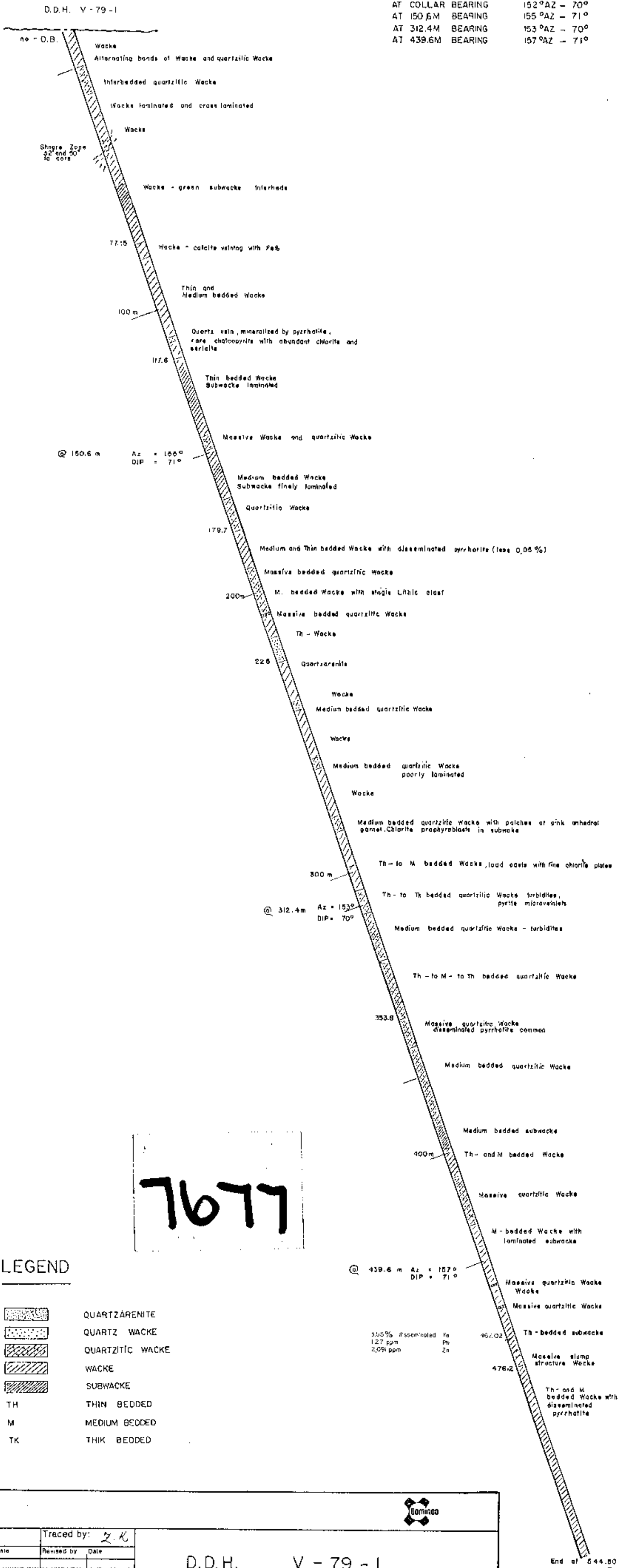
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
7677
NO.

SCALE: 1 TO 10,000
0 100 200 300 400 500 meters 1000

TOPO PLAN AND SECTION				Cominco
Drawn by:	Traced by:			
Revised by	Date	Revised by	Date	
GLW	SEPT 179			
Scale: 1:10,000		Date: SEPT 1979	Plate: V-79	NTS 82G/5

SPERRY SUN SINGLE SHOT TEST
OF D.D.H. V - 79 - 1

AT COLLAR BEARING	152°AZ - 70°
AT 150.6M BEARING	155°AZ - 71°
AT 312.4M BEARING	153°AZ - 70°
AT 439.6M BEARING	157°AZ - 71°



7677

LEGEND

	QUARTZARENITE
	QUARTZ WACKE
	QUARTZITIC WACKE
	WACKE
	SUBWACKE
TH	THIN BEDDED
M	MEDIUM BEDDED
TK	THICK BEDDED

3.55% disseminated Fe
127 ppm Pb
2.09 ppm Zn

Drawn by:		Traced by: <i>Z.K.</i>			
Revised by:	Date:	Revised by:	Date:		
D.D.H. V - 79 - 1				VINE GROUP 12 NTS 826/5	
Scale: 1 : 1,000					
				Plate:	