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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

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DIAMOND DRILLING REPORT

VINE PROPERTY

VINE 54, 56 AND 58 CLAIMS

FILMED

FORT STEELE MINING DIVISION, B.C.

CRANBROOK AREA

N.T.S. 82G/5E,5W

- ASSESSMENT REPORT -

44'36' LONGITUDE: 115°50'W

LATITUDE: 49°26'N 27'

OWNER OPERATOR

COMINCO LTD.

KOOTENAY EXPLORATION 1051 INDUSTRIAL ROAD #2, CRANBROOK, B.C. V1C 4K7

Work Performed June through September, 1987

Report by: A.S. HAGEN Submitted: October, 1987 GEOLOGICAL BRANCH ASSESSMENT REPORT

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COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

DIAMOND DRILLING REPORT

VINE 54, 56 & 58 CLAIMS

FORT STEELE M.D.

1.00 INTRODUCTION

1.10 Location and Access

The Vine property lies within the Fort Steele Mining Division. The claims are located immediately south of Cranbrook, B.C., centered at latitude 49° 26' N and longitude 115° 50' W.

Access to the property is by way of good gravel roads from highway 3/95 and from the south area of the municipality of Cranbrook.

1.20 Property Definition

The Vine property consists of 38 mineral claims totalling 491 units and one reverted crown grant (Grey Eagle - Lot 8915). All claims are 100% owned by Cominco Ltd.

1.30 Topography and Vegetation

The Vine claims are located on moderately hilly terrain. Vegetation consists predominantly of lodgepole pine, Douglas fir and larch. A large portion of the area containing lodgepole pine has recently been heavily logged due to an infestation of pine beetles.

2.00 DIAMOND DRILL HOLES V87-1 AND V87-2

2.10 DDH V87-1

Hole V87-1 was collared at -80° dip on azimuth 270° at elevation 1189 m on the boundary line between claims Vine 56 and Vine 58. The hole was triconed to bedrock at 9.1 m where coring began in Middle Aldridge sediments. Drilling remained in sediments to the end of the hole at 555.49 m.

The sediments cored are Middle Aldridge stratigraphy composed predominantly of medium and thick quartzitic wackes and quartzwacke beds of turbidite origin. Alternating with the zones of more proximal-type medium and thick turbidites are segments of more argillaceous, distal turbidites and inter-turbidite sediments which are thinly laminated to

thin bedded wacke, subwacke and argillite beds. Lithologies are typical Middle Aldridge basin-fill type sedimentary deposits.

Chlorite and biotite alteration is common throughout the stratigraphy cored with chlorite being particularly notable.

The rock is intensely fractured in part, with fracturing predominantly at 10° to 25° to core causing well broken core in some zones. Minor Pb/Zn mineralization occurs occasionally, in association with fracturing.

No mineralization of economic significance was encountered in hole V87-1.

2.20 DDH V87-2

Hole V87-2 was collared at -90° at elevation 1067 m on claim Vine 54. The hole was triconed to 4.3 m where bedrock was struck and coring began in Middle Aldridge sediments. Drilling remained in sediments to completion of the hole at 105.8 m.

The stratigraphy cored is of Middle Aldridge sediments composed mainly of medium and thick quartzitic wackes and quartzwackes of turbidite origin. The lithology is similar to that in previously described DDH V87-1 with segments of more distal and inter-turbidite type, thinly laminated to thin bedded wackes, subwackes and argillites alternating with the zones of more proximal, quartzite type medium and thick turbidites. The rock is biotitized and lightly chloritized in part.

No mineralization of economic significance was encountered in DDH V87-2.

3.00 CONCLUSIONS

3.10 DDH V87-1

Drillhole V87-1 cored sediments of Middle Aldridge stratigraphy containing minor Pb/Zn mineralization in association with intense fracturing within the upper portion of the hole.

Fracturing was encountered throughout the stratigraphy at 10° to 25° to core indicating proximity to a major fault structure.

DDH V87-1 neither encountered nor indicates proximity to, mineralization of economic significance within the stratigraphy cored.

3.20 <u>DDH V87-2</u>

DDH V87-2, similar to V87-1, cored sediments of Middle Aldridge stratigraphy. No mineralizatin of economic significance was encountered within the stratigraphy cored.

The core was not assayred.

Report by: A.S. HAGEN Geologist II

Endorsed by Z D. ANDERSON, P.Eng Project Geologist

Approved by:

J.M. HAMILTON, P.Eng Manager, Exploration Western Canada

ALC &

Distribution:

Mining Recorder (2 Copies) Western District, Exploration Kootenay Exploration

EXHIBIT "A"

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - VINE 56 and 58 CLAIMS DIAMOND DRILLHOLE V87-1 FORT STEELE MINING DIVISION

INDIRECT

Salaries

A.S. Hagen	-Drill site prepartion, Supervision,	
	Core logging, Report writing	
	40 days @ \$210/day	\$ 8,400
D. Anderson	-Supervision - 6 days @ \$250/day	1,500
J.S. Allen	-Field Assistant - 4 days @ \$ 81/day	324
H.C. Schultze	-Field Assistant - 4 days @ \$ 98/day	392

Mobilization/Demobilization

Bearcat Contracting Ltd., Fort Steele, B.C.2,009Henderson Heavy Hauling (1973) Ltd., Cranbrook, B.C1,465W. Barker Contracting Ltd., Kimberley, B.C.482

Water Supply

Lawrence Shubert	Trucking.	Cranbrook.	B.C.	9	. 7	4	O
				-		_	_

Transportation

One 4X4 truck 39 days @ \$40/day 1,560

Other Associated Costs

Supplies: Core boxes, drill additives 5,100

DIRECT

Tonto Drilling (B.C.) Ltd. #200 - 3920 Norland Ave. Burnaby, B.C. V5G 4K7 <u>68,957</u>

Total Drilling Cost - V87-1 = \$99,929

* Note: Drillhole on boundary of Vine 56 & 58 claims - expenditures split between two groups, Vine 87-1 and Vine 87-2.

Geologist

EXHIBIT "B"

STATEMENT OF EXPENDITURES

DIAMOND DRILLING - VINE 54 DIAMOND DRILLHOLE V87-2 FORT STEELE MINING DIVISION

INDIRECT

Salaries

A.S.	Hagen	-Drill site preparation, Supervision	
		Core logging, Report writing	
		7 days @ \$210/day	\$ 1,470
J.S.	Allen	-Field Assistant - 1 day @ \$81/day	81
н.с.	Schultze	-Field Assistant - 1 day @ \$98/day	98

Mobilization/Demobilization

Bearcat C	Contract	ing Ltd	., Fort	Steele	, B.C.		1,225
Henderson	Heavy	Hauling	(1973)	Ltd.,	Cranbrook,	B.C.	407

Transportation

One 4X4	truck	8	days	0	\$40/day	320
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Other Associated Costs

Supplies: Core boxes, Drill additives 1,000

DIRECT

Total Drilling Cost - V87-2 = \$14,550

A.S. HAĞEN

Geologist

IN THE MATTER OF THE

B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILL PROGRAM

CARRIED OUT ON THE VINE 54, 56 AND 58 CLAIMS

CRANBROOK AREA

in the Fort Steele Mining Division of the Province of British Columbia

More Particularily N.T.S. 82G/5

AFFIDAVIT

I, A.S. Hagen, 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" and Exhibit "B" to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill program, on the Vine 54, 56 and 58 Mineral Claims.
- 3. That the said expenditures were incurred between the 24th day of June, 1987 and the 1st day of October, 1987 for the purpose of mineral exploration on the above noted claims.

A.S. HAGEN GEOLOGIST

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

A.S. HAGEN has personally conducted many types of mineral exploration work for Cominco Ltd. over the last twenty years.

I consider him well qualified to prepare this report.

D. ANDERSON, P.Eng. Project Geologist

Diamond Drill Geological Log For D.D.H.	<u></u>
LAT. 49° 27' N LONG. 115° 45' W ELEV. 1189 m	
DIP: -80° A71M : 270° 1 FNGTH: 555.49m	GENERAL COMMENTS:
HORIZ COMP 107.4m VERT COMP 545.1m	Hole V87-1 is stage one of a planned 2 stage drill program.
DATE COLLAPED: 101/ 6 1097 DATE COMP. STED: August 4 1097	The hole is planned to go to 900 m in stage 2 at a later date.
CODE STOLEARCH Sully of 1987	
DRUE STORAGE Sullivan Mine Idellity	Intense fracturing throughout stratigraphy cored resulted in
ARIELTIVE Tool for DE /2 minutes in Alignides for a discussion	difficult and slow drilling at times.
Objective lest for PD/2n minerallization in Aldridge Em. sediments	3
PLANNED LENGTH, 900 m in two stages	No mineralization of oconomic significance was oncountered
TERMINED LENGTH 500 m In two stages	in V87-1
DRILLED BY: Tonto Drilling (B.C.) Ltd. TYPE DRILL: Longyear 38 and 44	
CORE SIZE: HO and NO	
PERFORMANCE COMMENTS: Difficulties in ground well fractured with	
breaks from parallel to 25° to core.	•
CASING REMAINING IN HOLE (LENGTH & SIZE): 10m H casing	LOG LEGEND
TYPE CAP & SEALING METHOD: Screw on type H casing cap	BED INICKNESS CLASSIFICATION ACONTROQUARTZITE
	Vary Thick Baddad
OTHER MATERIAL REMAINING IN HOLE: nil	Very Inick Bedded
	Thick Baddad
	BEDS Hedium Bedded
SURVEY INSTRUMENT USED: Sperry-Sun single shot	
	This Bedded
ADDITIONAL DOWN HOLE TESTS: nil	FELD/ / Y = / / JAMATRIX
A A A A A A A A A A A A A A A A A A A	Very This Bedded
	The second secon
	laminated

ommenced July 6, 1987 Location Boundary Vine 56 & 58 Tests at 130m, 276m, 435m, 555m Hor. Comp. 107.4 m 98 ompleted August 4, 1987 Core Size HQ + NQ Claims Corr. Dip See attached Vent. Comp. 545.1 m 98 o-ordinates Latitude 490° 27' N Longitude 115° 45' N True Brg. See attached Logged by A.S. Hagen 56 545.1 m 98 bjective Test for Pb/Zn mineralization in Aldridge Fm. % Recov. 90 - 95% Date August, 1987 56 56 8.0 - 9.1 Overburden Analysis Analysis Analysis Analysis 0m 10 Quartzwackes and quartzitic wackes, medium (predominantly) and thick bedded, contacts flat and distinct. Rock mostly quartzitic with thin (up to a few cm), more argillaccous bed tops. Interse chlorite alteration gives rock a distinctive preent inpg. Abundant, fine white flecks (leucoxene?) present. Minor fracturing, with thin quartzwackes interbed. Rare, dark grey, thinly laminated, chloritized sediment. This segment more distal and inter-turbidite type lithology. Strong chlorite alteration in Accks, subwackes and argillites, thin and medium bedded with occasional medium, quartzwackes and ouartzitic wackes, medium and thick bedded. sediment, very rare inter-turbidite type sediment. Intense fracturing in part, moderate to badly broken core, some crushed segments. Chlorite alteration. Bedding 75 to 80° to core.
ompleted August 4, 1987 Core Size HQ HQ Corr. Dip See attached Vert. Comp. 545.1 m Percention o-ordinates Latitude 49° 27' N Longitude 115° 45' W True Brg. See attached Logged by A.S. Hagen F bjective Test for Pb/Zn mineralization in Aldridge Fm. % Recov. 90 - 95% Date August, 1987 F sediments. sediments. sediments. Date August, 1987 F 3.0 - 9.1 Overburden Analysis Analysis 3.1 - 11.0 Quartzwackes and quartzitic wackes, medium (predominantly) and thick bedded, contacts flat and distinct. Rock mostly quartzitic with thin (up to a few cm), more argillaceous bed tops. Intense chlorite alteration gives rock a distinctive green tinge. Abundant, fine white flecks (leucoxene?) present. Minor fracturing, with thin quartz weins in part, 10-20° to core. Bedding 78° to core. Intense flocks 11.0 - 17.5 Wacks, subwackes and argillites, thin and medium bedded with occasional medium, quartzwacke interbeck. Rare, dark grey, thinly laminated, chloritized sediment. This segment more distal and inter-turbidite type lithology. Strong chlorite alteration in ant fracturing 10 to 25° to core. Two cm gouge and crushed rock at 16 m, along argillaceous bed top indicating movement along bedding plane. 17.5 - 24.4 Quartzwackes and quartzitic wackes, medium and thick bedded s
o-ordinates Latitude 49° 27' N Longitude 115° 45' N True Brg. See attached Logged by A.S. Hagen 2 bijective Test for Pb/Zn mineralization in Aldridge Fm. % Recov. 90 - 95% Date August. 1987 E
bijective Test for Pb/Zn mineralization in Aldridge Fm. % Recov. 90 - 95% Date August, 1987 E B Sediments. Name Sediments. Addition of the second processing procespansing processing processing processing procesprocessing process
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WWW Meterage Description Multiple 0.0 9.1 Overburden Image: Construction of the state
2.0 9.1 Overburden 3.1 - 11.0 Guartzwackes and quartzitic wackes, medium (predominantly) and thick bedded, contacts flat and distinct. Rock mostly quartzitic with thin (up to a few cm), more argillaceous bed tops. Intense chlorite alteration gives rock a distinctive green tinge. Abundant, fine white flecks (leucoxene?) present. Minor fracturing, with thin quartz veins in part, 10-20° to core. Bedding 78° to core. 11.0 - 17.5 Wacks, subwackes and argillites, thin and medium bedded with occasional medium, quartzwacke interbed. Rare, dark grey, thinly laminated, chloritized sediment. This segment more distal and inter-turbidite type lithology. Strong chlorite alteration. Rock becoming more fractured and shattered in part with prominant fracturing 10 to 25° to core. Two cm gouge and crusted rock at 15 m, along argillaceous bed top indicating movement along bedding plane. 17.5 - 24.4 Guartzwackes and quartzitic wackes, medium and thick bedded sediment, very rare inter-turbidite type sediment. Intense fracturing in part, moderate to badly broken core, some crushed segments. Chlorite alteration. Bedding 75 to 80° to core. 24.4 - 36.5 Wackes, subwackes and argillites, very thin to medium bedded sediments predominate, typical of more distal and inter-turbidite type deposition. Occasional thin bed of dark grey, thinly laminated sediment. This sand lenses in part. Chlorite alteration throughout, some bleaching effects highlight features, argillaceous segments commonly light green to buff coloured. Bedding 75 to 60° to core.
 9.1 - 11.0 Quartzwackes and quartzitic wackes, medium (predominantly) and thick bedded, contacts flat and distinct. Rock mostly quartzitic with thin (up to a few cm), more argillaceous bed tops. Interse chlorite alteration gives rock a distinctive green tinge. Abundant, fine white flecks (leucokene?) present. Minor fracturing, with thin quartz veins in part, 10-20° to core. Bedding 78° to core. 11.0 - 17.5 Wacks, subwackes and argillites, thin and medium bedded with occasional medium, quartzwacke interbed. Rare, dark grey, thinly laminated, chloritized sediment. This segment more distal and inter-turbidite type lithology. Strong chlorite alteration. Rock becoming more fractured and shattered in part with prominant fracturing 10 to 25° to core. Two cm gouge and crushed rock at 16 m, along argillaceous bed top indicating movement along bedding plane. 17.5 - 24.4 Quartzwackes and quartzitic wackes, medium and thick bedded sediment, very rare inter-turbidite type sediment. Intense fracturing in part, moderate to badly broken core, some crushed segments. Chlorite alteration. Bedding 75 to 80° to core. 24.4 - 30.5 Wackes, subwackes and argillites, very thin to medium bedded sediments predominate, typical of more distal and inter-turbidite type deposition. Occasional thin bed of dark grey, thinly laminated sediment. This sand lenses in part. Chlorite alteration throughout, some bleaching effects highlight features, argillaceous segments commonly light green to buff coloured. Bedding 75 to 80° to core.
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22 5 - 25 7 . Quentzwackes and quantzitic wackes, medium and thick bedded. Minor inter-turbidite
30.3 - 33.7 Bud tanda and due tanda and and the second sec
type deposition. Alteration effects as in previous segments. Fracturing, as above, causes moderate to badly broken core in part.
25.7 - 38.0 Warkes, subwarkes, and arbillites, similar to 24.4 to 30.5 m type deposition.
Fractured, broken core in part.
Cominco Page 2
Property Vine District Hole No. V87-1
Commenced Location Tests at Hor. Comp.
Completed Core Size Corr. Dip Vert. Comp.
Co-ordinates True Brg. Logged by
Co-ordinates True Brg. Logged by Delective % Recov. Date
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Co-ordinates True Brg. Logged by Dbjective % Recov. Date Dbjective % Recov. Date Operation 0 rem To 38.0 - 41.2 Quartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Dbjective % Recov. Date E Description Analysis nom To 38.0 - 41.2 Quartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding variable from 40° to 75° to core (local folding).
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Dbjective % Recov. Date E Description Analysis rorm To 38.0 - 41.2 Quartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding Variable from 40% to 75% to core (local folding). Chlorite alteration and bleaching common.
Co-ordinates True Brg. Logged by Dbjective % Recov. Date F Dbjective % Recov. Date F Operation Analysis F F Image: Tom To Description Analysis Image: Tom To Buartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding variable from 40° to 75° to core (local folding). Chlorite alteration and bleaching common. 41.2 - 50.9 Quartzwackes and quartzitic wackes, medium and thick bedded sediments, amalgamated in part. Rock is partially bleached and well chloritized. Usual fracture pattern as above, moderately broken core. Fine leucoxene flecks common as in all previous segments.
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Description % Recov. Date E 00/0000 000000000000000000000000000000000000
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Depreserve Pescription Analysis argillite inter-turbidite type deposition. Some disturbed sediment (slump-like) at 53 m.
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E 0 Determine % Recov. Date E 0 Determine % Recov. Date E 0 Determine % Recov. Date Analysis Determine % Recov. Date Analysis Determine % Recov. Markes. State % Recov. Markes. Determine % Recov. Analysis Determine % Recov. Markes. State % Performine % Performine State % Performine
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E 0 Description % Recov. Date % S8.0 - 41.2 Buartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding variable from 40° to 75° to core (local folding). Chlorite alteration and bleaching common. 41.2 - 50.9 Buartzwackes and quartzitic wackes, medium and thick bedded sediments, amalgamated in part. Rock is partially bleached and well chloritized. Usual fracture pattern as above, moderately broken core. Fine leucoxene flecks common as in all previous segments. 50.9 - 54.6 S0.9 - 54.6 Wackes, subwackes and argillites, rare quartzitic wacke bed. Mainly distal and inter-turbidite type deposition. Some disturbed sediment (slump-like) at 53 m. Alteration as above. Bedding 80 to 85° to core. Fractured core as in previous segments. 54.6 - 62.0 Guartzwackes and quartzitic wackes, medium and thick bedded, chloritized sediments, amalgamated in part. Some inter-turbidite type and/or current type deposition
Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Degrey Metarage Description Analysis 28.0 - 41.2 Guartzitic wackes and wackes, thin and medium bedded with wacke, subwacke and argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding variable from 40° to 75° to core (local folding). Chlorite alteration and bleaching common. 41.2 - 50.9 Guartzwackes and quartzitic wackes, medium and thick bedded sediments, amalgamated in part. Rock is partially bleached and well chloritized. Usual fracture pattern as above, moderately broken core. Fine lsucoxene flecks common as in all previous segments. 50.9 - 54.6 Wackes, subwackes and argillites, rare quartzitic wacke bed. Mainly distal and inter-turbidite type deposition. Some disturbed sediment (slump-like) at 53 m. Alteration as above. Bedding 80 to 85° to core. Fractured core as in previous segments. 54.6 - 62.0 Guartzwackes and quartzitic wackes, medium and thick bedded, chloritized sediments, amalgamated in part. Some inter-turbidite type and/or current type deposition (minor), irregular, lensy and slump-like at 61 m. Usual fracturing with broken
Dependinates True Brg. Logged by Dbjective % Recov. Date gr Depending % Recov. Date gr Depending Main and the set of the segment. Rock is well fractured as an in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding Variable from 40° to 75° to core (local folding). 41.2 State and quartzitic wackes, medium and thick bedded sediments, amalgamated in part. Rock is partially bleached and well chloritized. Usual fracture pattern as above, moderately broken core. Fine leucoxene flecks common as in all previous segments. State and and thick bedded, chloritized sediments, amalgamated inter-turbidite type deposition. Some disturbed sediment (slump-like) at 53 m. Alteration as above. Bedding 80 to 85° to core. Fractured core as in previous segments. 54.6 62.0 Quartzwackes and quartzitic wackes, medium and thick bedded, chloritized sediments, amalgamated in part. Some inter-turbidite type and/or current type deposition (minor), irregular, lensy and slump-like at 61 m. Usual fracturing with broken core in part. Some fracturing parallel to core. Bedding 80° to core.
Dependinates True Brg. Logged by Dbjective % Recov. Date F Dbjective % Recov. Date O Dependence Person O Analysis Dome 0 O Dome Analysis Dome 0 Dome O Dome Dome Dome 0 Dome Dome Dome Dome Dome Dome
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Co-ordinates True Brg. Logged by Dbjective % Recov. Date E Dbjective % Recov. Date E Description Analysis Analysis Dome To 0 argillite interbeds composing much of this segment. Rock is well fractured as in previous segments with intense, erratic fracture zones in part causing moderate to badly broken core. Bedding Variable from 40° to 75° to core (local folding). Chlorite alteration and bleached and well chloritized. Usual fracture pattern as above, moderately broken core. Fine leucoxene flecks common as in all previous segments. 50.9 Guartzwackes and argillites, rare quartzitic wacke bed. Mainly distal and inter-turbidite type deposition. Some disturbed sediment (slump-like) at 53 m. Alteration as above. Bedding 80 to 85° to core. Fractured core as in previous segments. 54.6 - 62.0 Guartzwackes and quartzitic wackes, medium and thick bedded, chloritized sediments, analgamated in part. Some inter-turbidite type and/or current type deposition (minor), irregular, lensy and slump-like at 61 m. Usual fracturing with broken core. 52.0 - 67.0 Wackes, subwackes and argillites, very thin to medium bedded. Intensely chloritized altering rock to distinctive medium-dark green. Rock is well fractured with erratic quartz veining in part. Some slickensides along fractures parallel to bedding as well as low angle to core. Zone contains one medium quartzitic wacke bed with base at 65 m. Bedding 75 to 60° to core.
Coordinates True Brg. Logged by b)bjective % Recov. Date g b b)bjective % Recov. Date g b b)bjective % Recov. Date G p b)bjective % Recov. Date Analysis b)bjective % Recov. Date Analysis com 10 f f f f com 10 f f f f f com 10 f <t< td=""></t<>

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Co-ordinates		True Bra.	Logged by		зĭ,	<u>e</u>
Objective	II Hole Record Page 3 Page 3 any Yine District Hole No. V87-1 No. Comp. No. Comp. menced Location Tests at Hor. Comp. No. Comp. pieted Core Size Core. Dip Vert. Comp. No. Comp. citive % Recov. Date g Recov. Date citive % Recov. Date g Recov. Date 6 - 104.4 Ouartzwackes and quartzitic wackes, medium and thick bedded. Very minor amounts of more argillaceous distal and inter-turbidite type beds. Some beds subtly graded, others change abruptly from quartzite to soft, argillaceous tops. Chlorite alternation as in previous segment howeven sets to some minor breactaition with adjacent broken core at 76.8 m. Bedding B50 to core. Analysis .4 - 128.3 Duartzwackes, quartzitic wackes and wackes, aimilar type liphology to previous segment howeven with thicken, argillaceous bed tops and howe distal ansociation with quarts in fractures and wost obvious in erratic, concentrated patch at 110 m. Bedding B50 to core. Analysis .3 - 123.2 Guartzwackes and argillite predoxinantly, some sediment in water sing fractures). Analysis to precedima segment with absence of think plantated wateke intervals. Bedding B50 to core. .4 - 132.4 Budrig B50 to core. Same type lithology as from 120.3 - 123.2 m. Rip-up clasts in quartzwacke bed at botion of this segment. Nith diz					
				Gai		S i
Meterage De	scription			Analy	sis	
From 10					-+	-+
75.6 - 104.4	Quartzwackes and quartzitic (wackes, medium and thick be	edded. Very minor amounts		-+	-+
	of more argillaceous distal an	nd inter-turbidite type beds.	Some beds subtly graded,	.	+	+
	as in previous segments, some	bleaching highlights feat	ures in part. Occasional	" []		
	thin (up to 2 cm) quartz ve: Some minor preciation with a	in reflecting prominant joint	ting at 5° to 10° to core. Bedding 85° to core		-+	
					-+	
104.4 - 120.3	Quartzwackes, quartzitic wacke segment however with thicker.	es and wackes, similar type argillaceous bed toos and mo	pe lighology to previous pre distal and inter-turbidi			-+
	type deposition. Several thin	ly laminated intervals from	3 to 46 cm thick. Abundant			
	with quartz in fractures and	s fine flecks in argillaceous most obvious in erratic. d	s sediment, in association			
	m. Bedding 85° to core.				-	-
120.3 - 123.2	Quartzwackes, quartzitic wach	es and wackes, medium and	thick bedded, chloritized		-	-+
	sediments. Similar to preced intervals. Bedding 85 ⁰ to cor	ling segment with absence o 'e.	of thinly laminated wacke		_	_
123.2 - 130.1	Subwackes and argillite predo	ominantly, some sediment in w	wacke range. This segment		-+	
	is dark grey and massive appea	aring for most part (core bac	ily scored, masking features	·	-+	
	125.9 m along plane parallel t	o bedding. Chlorite alterat	tion throughout.		-+	
130.1 - 132.6	Same type lithology as from 1	20.3 ~ 123.2 m. Rio-up o	lasts in quartzwacke bed		-+	
	at bottom of this segment.				-+	
132.6 - 140.0	Wackes, subwackes and argil	lites, very thin bedded to	medium (rare) bedded (2		-+	-+
	medium quartzwacke beds near t	op of this segment). Thir	hly laminated, medium/dark		-	-+
	Chloritized sediment. Bedding	1 80° to core.	, ттйне длях рера сощщой.		-	-+
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Property Vine	District	Hole No. V87-1		<u>ت</u> ۲	ł –		
Commenced	Location	Tests at	Hor. Comp.	22		0	E
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Objective		% Recov.	Date	Ē	D.	llar	ż
				0	E.	8	ă,
ADDENDA Meterage Desc	ription			Anal	ysis	<u> </u>	
140.0 - 148.0	Quartzwackes and quartzitic wac tized rock, bleached in part, h	kes, medium and thick bedded ighlighting features.	, rare thin bed. Chlori-	-	-		-
148.0 - 165.1	Quartzwackes and quartzitic	wackes, medium and thick	bedded. Some distal and				
	inter-turbidite type wackes, su	bwacke and argillite de	position. This segment				
	predominantly quartzitic. A fe up to 38 cm in thickness. Zi	w thinly laminated, medium/d nc. lead and pyrrhotite fr	ark grey wacke intervals acture mineralization in				
	association with chlorite and	calcite from 163.4 to 164.3	m. Chlorite alteration				
	throughout. Bedding 809 to cor	e.					
165.1 - 181.2	Quartzwackes and quartzitic wac	kes, medium and thick bedded	, chloritized sediments.				
	Similar lithology to preceding prev wacke beds. Some Minor.	segment with absence of thin erratic fracturing with pr	ong laminated, medium/dark Cominant fractures 5° to				
	25° to core. Zinc, lead and	pyrrhotite in association w	ith calcite and chlorite				
	in fractures at 165.7 to 167.1	n.			Γ		
181.2 - 188.1	Wackes, subwackes and argillite	s, predominantly very thin t	o medium bedded, chlori-				
	tized sediments with interval f beds in medium/thick range. Nu	rom 184.3 to 186.0 m contair merous intervals of thinl	y laminated medium/dark				
	grey wacke beds. Occasional grey flecks. Bedding 80° to co	thin interval containing re.	fine, calcareous, light				
188.1 - 193.8	Quartzwackes and quartzitic wac	kes, medium and thick be	dded. Minor amount of	· [$\left\{ -\right\}$	-
	more argillaceous, distal and i	nter-turbidite type depositi	on. Chlorite alteration.		-	1	-
193.8 - 196.1	Wackes, subwackes and argillit	es, very thin to thin bedded	range. Abundant thinly	-	1	1-	
	laminated, light and medium/dar eous, light grey flecks. Beddi	k grey wacke. Some interval ng 80 to 85° to core.	s contain fine, calcar-		-	1	
196.1 - 220.4	Quartzwackes, quartzitic wacke	s, medium and thick bedded,	rare bed in thin range.	-	+	+	\vdash
	This segment predominantly quar	tzitic with occasional inter	val, up to 1 m, containing		+	+	–

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Property Vine	District	Hole No. V87-1		+		
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ompleted	Core Size	Corr. Dip	Vert. Comp.	, i	est	8
o-ordinates		True Bra.	Logged by		3	l <u>e</u>
blective	<u> </u>	% Recov.	Data	<u> </u>	ei	la.
5100.00			Paro	L Clai	<u>n</u>	100
XXXXX Meterage De	scription			Analys	sís	
196.1 - 220.4	wacke, subwacke and annillite	litheleging Redding 80 to 8	350 to cono			┢
(Cont'd)	Mannet Sasmache and Dryffille	rithorogresk bendring bo to c		 −_+	-	┢╌
220 4 - 222 3	Wackes subwackes and anal	lites Distal and internation	whidita type lithelesies	<u>}</u> }		┢
	of thinly laminated, dark grey massive argillaceous beds.	wacke and medium/light g	prey, subtley graded to			
222.3 - 248.6	Quartzwackes, quartzitic war	ckes, medium and thick bed	ded (predominantly) with	┠╼╾┼		┢
	intervals of less than 1 m cor	ntaining thin and medium wacke	beds, distal and inter-	<u></u>		╞
	broken core in part. Low and	le or bedding plane fault in	dicated by thin (3 cm).			╞
	brecciated, intensely chlori	itized segment containing q	uartz and calcite at 229	┝┉┥		┝
	m. Minor (less than 2 cm) di more arcillaceous. segments.	Splacements along fracturin Galena, sphalerite and c	ng highlighted in some, Thalcopyrite (more minor)			L
	mineralization in association	with fracturing occasionall	y between 224 and 234			L
	m. White, calcareous flecks displayed from 240.A to 241.A	abundant in some beds. Slum m. Strong chlorite alterat	ip and/or rip-up features			-
	to core.			↓ ↓		L
40 5 - OFF F	Similar lithology to success	ling concert however man	annillanooue dietal and			L
	inter-turbidite type depositio	on.	- Herrordona atarat dun		\square	
55.5 - 256.6	Wackes and subwackes, thin and	medium bedded. 50% of this	segment is thinly laminated	,		L
	light and medium/dark grey was	cke. Bedding 83 ⁰ to core.		· +	\rightarrow	┡
56.6 - 271.0	Quartzwackes and quartzitic wa	ckes, medium and predominantl	y thick bedded sediment.			L
	Usual intervals of very thin	bedded to thin bedded dis	tal and inter-turbidite			Ĺ
	type wackes, subwackes and ar intense in part (е.д. 265 м.	gillites. Pronounced chlorit in association with abunda	e alteration throughout, int carbonate in part).		_	L
					\square	L
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rill Hole Rec	ord	· · · · · · · · · · · · · · · · · · ·	Cominco Page 6			<u>}</u>
rill Hole Rec	ord	Hole No. V87-1	Cominco Page 6	85 +		
rill Hole Rec	ord District	Hole No. V87-1 Tests at	Cominco Page 6	56 + 58		<u> </u>
rill Hole Rec operty Vine ummenced	Ord District Location	Hole No. V87-1 Tests at Corr. Din	Hor. Comp.	ine 56 + 58	est	
rill Hole Rec operty Vine immenced impleted	Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip	Hor. Comp. Vert. Comp.	Vine 56 + 58	West	
rill Hole Rec operty Vine mmenced mpleted -ordinates	Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg.	Hor. Comp. Vert. Comp. Logged by	m vine 56 + 58	ar Din	ar Dip
rill Hole Rec operty Vine mmenced mpleted -ordinates jective	Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	Claim Vine 56 + 58	West Collar Din	
rill Hole Rec operty Vine mmenced mpleted -ordinates jective	Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Ecomineo Page 6 Hor. Comp. Vert. Comp. Logged by Date	jectiam Vine 56 + 58 Vine 76 + 58	Gollar Din	
rill Hole Rec <u>operty</u> Vine ymmenced impleted i-ordinates yjective m To Des	ord District Location Core Size cription	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	istration 1	6 West	
rill Hole Rec operty Vine ommenced ompleted opertive opertive m To 271.0 - 275.0	ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	Vine 56 + 58	6 West Collar Din	Collar Dip
rill Hole Rec operty Vine immenced ordinates ojective <u>m To</u> 271.0 - 275.0	Ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. tes, very thin bedded to me inter-turbidite type depos eds. Bedding 80 to 85° to cor	Hor. Comp. Vert. Comp. Logged by Date Rdium bedded, chloritized sition. Segment contains e.	vine 56 + 58	a West Collar Din	
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rill Hole Rec pperty Vine mmenced mpleted ordinates jective XXXX Meterage Des 71.0 - 275.0 75.0 - 287.2	Ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be Guartzwackes and quartzitic intervals, less than 1 m thic of wacke, subwacke and argil	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. d inter-turbidite type depos ds. Bedding 80 to 85° to cor wackes, medium and thick ck, containing distal and im lite. Thin (1 cm) gouge alon	Hor. Comp. Vert. Comp. Logged by Date Redium bedded, chloritized Sition. Segment contains Vert. bedded sediments. Usual ter-turbidite type beds Ig bedding plane at 282.3	Vine 56 + 58	w West	
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rill Hole Rec pperty Vine mmenced mpleted -ordinates jective XXXX Meterage Des 71.0 - 275.0 75.0 - 287.2 87.2 - 288.9 88.9 - 294.0	Ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be Quartzwackes and quartzitic intervals, less than 1 m thic of wacke, subwacke and argill m. Wackes, subwackes and argillit Zone contains 3, thin, quartzi Chloritic throughout. Quartzwackes and quartzitic wa itized sediment. Typical tur	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. tes, very thin bedded to me i inter-turbidite type depose eds. Bedding 80 to 85° to corr wackes, medium and thick ck, containing distal and in lite. Thin (1 cm) gouge alon ttic wacke beds. Minor, fine ttic wacke beds. Minor, fine ttic wacke beds. Minor, fine	Page 6 Hor. Comp. Vert. Comp. Logged by Date Pedium bedded, chloritized Stition. Segment contains Pe. bedded sediments. Usual ster-turbidite type beds ag bedding plane at 282.3 medium bedded sediments. zinc flecks occasionally. Siminantly) bedded, chlor- sual intervals of distal	vine 56 + 58		
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rill Hole Rec perty Vine immenced impleted -ordinates jective XXXX Meterage Des 71.0 - 275.0 275.0 - 287.2 287.2 - 288.9 288.9 - 294.0 294.0 - 297.2 297.2 - 303.8	Ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be Quartzwackes and quartzitic intervals, less than 1 m thic of wacke, subwacke and argilli M. Wackes, subwackes and quartzitic wa itized sediment. Typical tur and inter-turbidite type, very Bedding B5° to core. Wackes, subwackes and argilli Distal and inter-turbidite type bedding. Bleaching effect hi at 296.9 m. Quartzwackes, thick bedded sec argillaceous beds. Chloritic	Hole No. V87-1 Tests at Corr. Dlp True Brg. % Recov. tes, very thin bedded to me inter-turbidite type depose eds. Bedding 80 to 85° to cor wackes, medium and thick ck, containing distal and in lite. Thin (1 cm) gouge alon res, very thin bedded to me tic wacke beds. Minor, fine ackes, medium and thick (predo bidite type deposition with u o thin to thin bedded wackes, tes, very thin to thin bedded bidite type deposition with u o thin to thin bedded wackes, tes, very thin to thin bedded be deposition. Some curren ighlights features. 15 mm g diment. Rare distal and int as in previous segments.	Kor. Comp. Page 6 Hor. Comp. Logged by Logged by Date Bala Date Edium bedded, chloritized Stition. Segment contains Bedded sediments. Usual Inter-turbidite type beds Inter-turbidite type beds Stition. Segment contains Bedded sediments. Usual Inter-turbidite type beds Inter-turbidite type beds Stitic flecks occasionally. Intervals of distal Subwackes and argillites. I, chloritized sediments. Intervals of distal I, chloritized se	Vine 56 + 58		
rill Hole Rec perty Vine mmenced mpleted ordinates jective www. Meterage Des n To 71.0 - 275.0 75.0 - 287.2 87.2 - 288.9 88.9 - 294.0 94.0 - 297.2 97.2 - 303.8 w03.8 - 309.5	ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be Guartzwackes and quartzitic intervals, less than 1 m thic of wacke, subwacke and argilli m. Wackes, subwackes and quartzitic wa itized sediment. Typical tur and inter-turbidite type, very Bedding 85° to core. Wackes, subwackes and argilli Distal and inter-turbidite type bedding. Bleaching effect hi at 296.9 m. Quartzwackes, quartzitic waa sediments. Segment includes	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. tes, very thin bedded to me i inter-turbidite type depose ds. Bedding 80 to 85° to cor wackes, medium and thick ck, containing distal and in lite. Thin (1 cm) gouge alon es, very thin bedded to m tic wacke beds. Minor, fine weakes, medium and thick (predoc bidite type deposition with u w thin to thin bedded wackes, tes, very thin to thin bedded bidite type deposition with u w thin to thin bedded wackes, tes, very thin to thin bedded to me current the deposition. Some current the deposition. Some current timent. Rare distal and inter-turb some distal and inter-turb	Hor. Comp. Hor. Comp. Vert. Comp. Logged by Date edium bedded, chloritized sition. Segment contains ''e. bedded sediments. Usual hter-turbidite type beds ig bedding plane at 282.3 medium bedded sediments. zinc flecks occasionally. minantly) bedded, chlor- usual intervals of distal subwackes and argillites. i, chloritized sediments. i, chloritized sediments. iouge along bedding plane cer-turbidite type, more edium bedded, chloritized ouge along bedding plane	vine 56 + 58	w West	
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ill Hole Rec perty Vine nmenced npleted ordinates ective ixix Meterage Des 71.0 275.0 75.0 75.0 287.2 87.2 87.2 288.9 9 88.9 294.0 9 94.0 297.2 97.2 97.2 303.8 03.8 03.8 309.5 9	Ord District Location Core Size cription Wackes, subwackes and argilli sediment. Typical distal and 2 medium thick, quartzwacke be Guartzwackes and quartzitic intervals, less than 1 m thic of wacke, subwacke and argillit Zone contains 3, thin, quartzi Chloritic throughout. Quartzwackes and quartzitic was itized sediment. Typical tur and inter-turbidite type, very Bedding 85° to core. Wackes, subwackes and argillit Distal and inter-turbidite type bedding. Bleaching effect hi at 296.9 m. Quartzwackes, quartzitic was sediments. Segment includes Bedding 80 to 85° to core. Wackes, subwackes and argillit	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date edium bedded, chloritized ition. Segment contains ter-turbidite type beds ng bedding plane at 282.3 hedium bedded sediments. zinc flecks occasionally. minantly) bedded, chlor- tsual intervals of distal subwackes and argillites. i, chloritized sediments. ict features, rare cross pouge along bedding plane cer-turbidite type, more edium bedded, chloritized out bedded, chloritized subwackes and argillites. d, chloritized sediments. edium bedded, chloritized	ishing the set of the	west Collar Din	

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Property Vine	District	Hole No. V87-1	••	+			
Commenced	Location	Tests at	Hor. Comp.	56			~
Completed	Core Size	Corr, Dip	Vert. Comp.	e	1	12	ŝ
co-ordinates			Loggod by	S	3	ž ;	<u>_</u>
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AXXXX Meterage De	escription			O Ana	<u>III alysi</u>	is IC	<u>0</u>
10 10					Ŧ	\mp	_
(Cont'd)	313.3 m. Calcareous, lentic blebs (less than 5 mm), with	cular forms up to 4 mm at 314 h halos of leucoxene at 313.6	4.6 m, eliptical carbonate <i>m</i> .		╀	+	
316.8 - 321.6	Quartzwackes, quartzitic w rich segments in some beds. . tion. Bedding 80 to 85° to	wackes, medium and thick bec Minor amount of distal and i o core.	dded. Occasional carbonate inter-turbidite type deposi-		Ŧ	+	
321.6 - 326.4	Wackes, subwackes and argill Some thinly laminated, ligh Occasional, thin calcareous broken sections.	lites, very thin and thin bedd nt and medium/dark grey wack bed. Fracturing from paral	ded, chloritized sediments. «e beds up to 10 cm thick. llel to 15 ⁰ to core, some			+	
326.4 - 332.5	Quartzwackes, quartzitic wa	ackes, medium and thick bedd	ed, chloritized sediments.		+	+	-
	Minor amount of distal and i subwacke and arnillite beds	inter-turbidite type, very thi	in to thin bedded wacke,		+	+	-
	grey carbonate concretion wi	th abundant chlorite blebs at	332.5 m. Light fracturing.		\mathbf{T}	+	-
	predominant pattern from par vein in association with tre	allel to 15° to core with molite/actinolite. Bedding 8	occasional, thin quartz		t	\pm	_
332,5 - 337.5	Quartzitic wackes. warkes	Subwackes and annillites	ery thin to medium badded	L	1	1	
	chloritized sediments. Cons type deposition. One 8 cm	iderable amount of more d carbonate concetion containi	listal and inter-turbidite ng abundant chlorite blebs	-	┝	+	-
	from parallel to 25° to confault).	e. A few cm of crushed rock	with gouge at 336 m (minor	-	F	1	-
77 E		·			+	+	-
537.5 - 343.1	Quartzwackes and quartzitic amount of argillaceous be	wackes, thick bedded, chlo d top material and distal a	ritized sediments. Minor nd/or inter-turbidite type		+-	+	-
	beds. Bedding 80° to core.					-+-	-
					E	╧	-
ill Hole Rec	ord						-
Irill Hole Rec	Ord	Hole No. V87-1	Cominco Page 8	28			
orill Hole Rec	Drd District Location	Hole No. V87-1 Tests at	Cominco Page 8 Hor. Comp.	20 + 28			
operty Vine	District Location Core Size	Hole No. V87-1 Tests at Corr. Dip	Hor. Comp. Vert. Comp.	ne 56 + 58	st .	-800	
operty Vine	District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg.	Hor. Comp. Vert. Comp. Logged by	Vine 56 + 58	West	Dip_Ruo	
rill Hole Reco operty Vine ommenced ompleted -ordinates	District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	in Vine 56 + 58	rg. West	iar Dip	
operty Vine operty Vine ommenced ompleted o-ordinates ojective	Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	Claim Vine 56 + 58	West	Collar Dip	
operty Vine ommenced ompleted ordinates ojective	District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp. Vert. Comp. Logged by Date	level and the set of t	a brg. West	Collar Dip	
operty Vine ommenced o-ordinates ojective WAK Meterage Dese m To 43.1 - 348.2	District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized	Hor. Comp. Vert. Comp. Logged by Date	kieuvy Kieuvy Kine 56 + 58	a hest	Collar Dip_800	
operty Vine ommenced operty Vine ommenced opertied operties operties operties operty Vine operty Vine	District Location Core Size Core Size Core Size Core Size Core Size Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m	Hor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. inor faulting indicated.	Keuvy Claim Vine 56 + 58	a hest	Collar Dip	
operty Vine ommenced ompleted o-ordinates opective WAK Meterage Desc 43.1 - 348.2 48.2 - 357.2	District Location Core Size cription Quartzitic wackes, thin and the bed top, distal and inter-tur Some broken core with minor ge Quartzitic wackes, wackes, sul	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Mecium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver	Hor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. binor faulting indicated. by thin to medium bedded,	All the set of the set	l all brg. West	Collar Dip_R00	
rill Hole Rect operty Vine ommenced o-ordinates ojective 43. 1 - 348. 2 48. 2 - 357. 2	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio	Hor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. inor faulting indicated. y thin to medium bedded, Some crossbedding highlighted n with abundant chlorite	All	Hest Hest	Collar Dip	
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Prill Hole Rect operty Vine ommenced ompleted o-ordinates ojective 10 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 53.4 - 396.5	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ⁹ to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core.	Formula Page 8 Hor. Comp. Vert. Comp. Logged by Date Date Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Some crossbedding highlighted some crossbedding highlighted m with abundant chlorite cominantly) bedded, chlor- in lower 1 m. medium bedded,	In the set of the set		Coltar Dip	
Prill Hole Rect operty Vine ommenced ompleted opertive WMX Meterage Desc 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 63.4 - 396.5 69.5 - 393.3	District Location Core Size Cription Quartzitic wackes, thin and in bed top, distal and inter-tur Some broken core with minor ge Quartzitic wackes, wackes, sul chloritized sediments. Simila in upper meter of this segment at 352.2 m. Bedding 80 to 856 Quartzwackes and quartzitic was itized sediments. Some amalge Wackes, subwackes and argillit chloritized sediments. Beddin Quartzwackes, quartzitic was sediments with intervals up for and inter-turbidite type beds in quartzwacke and 378.9 m, ve	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Re	Formation Page 8 Hor. Comp. Vert. Comp. Vert. Comp. Logged by Date Date sediments. Argillaceous abundant in this segment. abundant in this segment. infor faulting indicated. by thin to medium bedded, Some crossbedding highlighted minantly) bedded, chlorite cominantly) bedded, chlorite more i m. ery thin to medium bedded, thick bedded, chloritized more argillaceous distal g. fine, spotty carbonate laminations at 381.4 m.) bedinations	Vine 56 + 58	lest west	Collar Dip	
rill Hole Rect operty Vine ommenced ompleted opertive HWAK Meterage Deser 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 53.4 - 396.5 59.5 - 393.3	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Re	Hor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. ninor faulting indicated. ty thin to medium bedded, Some crossbedding highlighter n with abundant chlorite ominantly) bedded, chlor- in lower 1 m. rery thin to medium bedded, thick bedded, chloritized g. fine, spotty carbonate laminations at 381.4 m.)	A Vine 56 + 58		Collar Dip_goo	
Orill Hole Rect operty Vine ommenced ompleted operty Vine Ompleted operty Vine WMX Meterage Desc 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 63.4 - 396.5 69.5 - 393.3 93.4 - 400.0	District Location Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ⁰ to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core. ckes and wackes, medium to to 1 m containing thinner, s. Some beds calcareous (e. ery fine carbonate flecks in ites, a very thin bedded to m quartzwacke bed with base at dark grey wacke intervals	Page 8 Hor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. Ninor faulting indicated. ry thin to medium bedded, Some crossbedding highlighter, with abundant chlorite cominantly) bedded, chlor-in lower 1 m. rery thin to medium bedded, thick bedded, chloritized more argillaceous distal g. fine, spotty carbonate laminations at 381.4 m.) redium bedded, chloritized 397.6m. Abundant thinly varying from 2 to 30 cm.	claim Vine 56 + 58		Collar Dip	
rill Hole Rector operty Vine ommenced ompleted -ordinates ojective 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 53.4 - 396.5 59.5 - 393.3 93.4 - 400.0	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ⁰ to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core. ckes and wackes, medium to to 1 m containing thinner, s. Some beds calcareous (e. ery fine carbonate flecks in ites, a very thin bedded to m quartzwacke bed with base at dark grey wacke intervals	Kor. Comp. Page 8 Hor. Comp. Vert. Comp. Logged by Date Sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous ominantly bedded, chlorite cominantly bedded, chlor- in lower 1 m. more argillaceous distal g. fine, spotty carbonate laminations at 381.4 m.) medium bedded, chloritized 397.6m. abundant thinly varying from 2 to 30 cm.	sterrar vine 56 + 58		Collar Dip	
Prill Hole Rector operty Vine pommenced pompleted poordinates polective 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 63.4 - 396.5 69.5 - 393.3 93.4 - 400.0 00.0 - 408.8	District Location Location Core Size Core Size Cor	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ^o to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core. ckes and wackes, medium to to 1 m containing thinner, s. Some beds calcareous (e. ery fine carbonate flecks in ites, a very thin bedded to m quartzwacke bed with base at dark grey wacke intervals es and wackes, medium and	Kor. Comp. Page 8 Hor. Comp. Vert. Comp. Logged by Date Sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous some crossbedding highlighted n with abundant chlorite cominantly) bedded, chlor- in lower 1 m. more argillaceous distal g. fine, spotty carbonate laminations at 381.4 m.) redium bedded, chloritized 397.6m. Abundant thinly varying from 2 to 30 cm. thick bedded. Approxi-	Sterry Vine 56 + 58		Collar Dip	
Prill Hole Rect operty Vine pommenced pompleted poordinates polective 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 63.4 - 396.5 69.5 - 393.3 93.4 - 400.0 00.0 - 408.8	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.6 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ⁹ to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core. ckes and wackes, medium to to 1 m containing thinner, s. Some beds calcareous (e. ery fine carbonate flecks in ites, a very thin bedded to m quartzwacke bed with base at dark grey wacke intervals es and wackes, medium and nsists of more argillaceous,	Kor. Comp. Vert. Comp. Logged by Date sediments. Argillaceous abundant in this segment. binor faulting indicated. vy thin to medium bedded, Some crossbedding highlighted n with abundant chlorite cominantly) bedded, chlor- in lower 1 m. ery thin to medium bedded, for argillaceous distal g. fine, spotty carbonate laminations at 381.4 m.) edium bedded, chloritized 397.6m. Abundant thinly varying from 2 to 30 cm. thick bedded. Approxi- distal and inter-turbidite	Stevensor		Collar Dip	
rill Hole Rect operty Vine mmenced mpleted -ordinates olactive 43.1 - 348.2 48.2 - 357.2 57.2 - 363.4 53.4 - 396.5 59.5 - 393.3 93.4 - 400.0 20.0 - 408.8	District Location Core Size Core Size Co	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. Medium bedded, chloritized rbidite type deposition more ouge from 347.0 to 347.6 m, m bwackes and argillites, ver ar zone to 332.5 - 337.5 m. t. 3 cm carbonate concretio ⁹ to core. ackes, medium and thick (pred amated beds. Minor thin beds tes, rare quartzitic wacke, v ng 80 to 85° to core. ckes and wackes, medium to to 1 m containing thinner, s. Some beds calcareous (e. ery fine carbonate flecks in ites, a very thin bedded to m quartzwacke bed with base at dark grey wacke intervals les and wackes, medium and nsists of more argillaceous, dded wackes, subwackes and m/dark grey wacke interval	Kor. Comp. Page 8 Hor. Comp. Vert. Comp. Logged by Date Date Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Date sediments. Argillaceous abundant in this segment. Some crossbedding highlighted n with abundant chlorite Some crossbedding highlighted ominantly) bedded, chlor- In lower 1 m. ery thin to medium bedded, Chloritized distal g. fine, spotty carbonate laminations at 381.4 m.) more argillaceous distal g. g. fine, Spotty carbonate laminations at 381.4 m.) sedium bedded, chloritized 397.6m. Abundant thinly varying from 2 to 30 cm. thick bedded. Approxi- thick bedded. Approxi- distal and inter-turbidite argillites. s (a few cm) are included Pointure	In the set of the set			

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Property Vine	District	Hole No. V87-1		+ 58			
Commenced	Location	Tests at	Hor. Comp.	50		0	
Completed	Core Size	Corr. Dip	Vert. Comp.	Vine	lesi	, W	5
Co-ordinates		True Brg.	Logged by	_		ä	1
Objective		% Recov.	Date	inini Einini	Brg	ollar	
Mostage Meterage Des	cription		·····	Anal	H- VSIS	ð	ũ
From To			· · · · · · · · · · · · · · · · · · ·	_			Ţ
400.0 to 408.0 (Cont'd)	most often tight with quartz, c to 85° to core.	calcite and chlorite in	association. Bedding 800				
100 0 101 0	Over the second second second						1
400.0 - 421.0	Zone from 416.8 to 418.9 m is	es, medium and thick bedde thin and medium bedded	d, chloritized sediments. turbidites with intervale		L	ļ	1
	of distal and inter-turbidite typ thin beds. Fine, light grey to w	be wacke, subwacke and white calcareous flecks oc	argillite very thin to casionally throughout.				$\frac{1}{1}$
421.0 - 423.2	Intensely fractured, quartzitic	sediment. Erratic fr	acturing from parallel to				
	25° to core with quartz veins up sphalerite mineralization. Chlor indicate this to be a fault zone.	o to 5 cm thick. Minor rite alteration highlighter	pyrite, chalcopyrite and d. Polished shear planes				
423.2 - 425.3	Gabbro, fine grained sill or dyke defined. Possibly dyke along fau	a. Top contact indicates of plane as described immediates	s 25 ⁰ to core, not well ediately above.				
425.3 ~ 436.9	Quartzwackes and guartzitic wacke	es, medium and thick bedded	d, chloritized sediments.				L
	Minor amount of argillaceous bed Bedding 75 to 80° to core.	top and distal or inter-	urbidite type sediment.				$\frac{1}{1}$
436.9 - 440.8	Quartzitic wackes and wackes, Occasional calcareous segment.	thin and medium bedded	, chloritized sediments.				
440.8 - 453.0	Quartzwackes and quartzitic wacke	s, medium and thick bedded	, chloritized sediments.				L
	Minor amount of more argillaceous tion. Prominant fracturing at ve	bed top and distal or int ry low angle to core cont	er-turbidite type deposi- inues. Core moderately				
	broken in part.						Ļ
453.0 - 453.7	Fault, well fragmented rock in a top of zone 15 to 20° to core.	ssociation with gouge.	Gouge along fracture at				
453.0 - 453.7 Drill Hole Reco	Fault, well fragmented rock in a top of zone 15 to 20° to core.	ssociation with gouge.	Gouge along fracture at	28		-	
453.0 - 453.7 Drill Hole Reco	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1	Gouge along fracture at	6 + 58			
453.0 - 453.7 Drill Hole Reco Property Vine	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at	Bouge along fracture at	e 56 + 58		00	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed	Fault, well fragmented rock in a top of zone 15 to 20° to core. Ord District Location Core Size	Hole No. V87-1 Tests at	Bouge along fracture at	Vine 56 + 58	West	-80°	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates	Fault, well fragmented rock in a top of zone 15 to 20° to core. ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg.	Bouge along fracture at Cominco Page 10 Hor. Comp. Logged by	n Vine 56 + 58	9. West	r Dip -80 ⁰	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective	Fault, well fragmented rock in a top of zone 15 to 20° to core. Ord District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Gouge along fracture at Cominco Page 10 Hor. Comp. Vert. Comp. Logged by Date	Claim Vine 56 + 58	Brg. West	Collar Dip _80 ⁰	lev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KAXXXX Meterage Desc	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Bouge along fracture at Comminen Page 10 Hor. Comp. Vert. Comp. Logged by Date	steer Vine 56 + 58	er brg. West	Colfar Dip 80 ⁰	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective row To Desc	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Bouge along fracture at Cominco Page 10 Hor. Comp. Vert. Comp. Logged by Date Date	Steel State	set Brg. West	Colfar Dip -80°	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KWXXX Meterage Desc rom To 453.7 - 457.3	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Bouge along fracture at Comminen Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing	Vine 56 + 58	a Brg. West	Colfar Dip -80 ⁰	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KXXXXX Meterage Desc from To 453.7 - 457.3	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov.	Gouge along fracture at Commines Page 10 Hor. Comp. Veri. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core.	Vine 56 + 58	ar Brg. West	Colfar Dip -80 ⁰	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KWXXXX Meterage Desc rom To Desc 453.7 - 457.3	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov.	Bouge along fracture at	Steel State	set Brg. West	Collar Dip	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KXXXXX Meterage Desc KXXXXX Meterage Desc 453.7 - 457.3 457.3 - 492.8	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov.	Bouge along fracture at Comminen Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite	Vine 56 + 58	a l Brg. West	Colfar Dip	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KWXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 492.8	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov.	Bouge along fracture at Fracture at Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- p core. , chloritized sediments distal and inter-turbidite medium range. Typical	Vine 56 + 58	a Brg. West	Collar Dip -80 ^o	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KXXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 492.8	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Wackes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Re	Bouge along fracture at Fracture at Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- p core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining	Vine 56 + 58	ari Brg. West	Collar Dip -80 ⁰	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KXXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 492.8	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Mackes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 and Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov. % Recov. % Redum and thick bedded, than 1 m containing more a beds in the very thin to deposition. Fracturing of those this segment. Occas: sphalerite and galena in 9.2 m. Some well polisher	Bouge along fracture at Forming Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz disurfaces along bedding	Vine 56 + 58	a Brg. West	Coltar Dip	Elev
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KXXXX Meterage Desc To 453.7 - 457.3 457.3 - 492.8	Fault, well fragmented rock in a top of zone 15 to 20° to core.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov. % Recov. % medium and thick bedded, than 1 m containing more is beds in the very thin to deposition. Fracturing whout this segment. Occass sphalerite and galena in bl.2 m. Some well polisher along bedding planes in malong the breaks. Bedding	Bouge along fracture at Forming Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core.	Vine 56 + 58	ari arg. West	Collar Dip	
453.0 - 453.7 Drill Hole Rect Property Vine Commenced Completed Co-ordinates Objective KKXKW Meterage Desc rom To 453.7 - 457.3 457.3 - 492.8 492.8 - 494.2	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Markes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites,	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov. % Recov. % medium and thick bedded than 1 m containing more for a beds in the very thin to deposition. Fracturing a sphalerite and galena in 21.2 m. Some well polished along bedding planes in for along the breaks. Bedding yery thin to medium bedded	Bouge along fracture at Forming Page 10 Hor. Comp. Veri. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments.	Vine 56 + 58	eil Brg. West	Colfar Dip	
453.0 - 453.7 Drill Hole Rect Property Vine Commenced Completed Co-ordinates Objective 453.7 - 457.3 457.3 - 492.8 492.8 - 494.2	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Mathematical Core Size Mathematical Core Size Mathematical Core Continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites, Lithology similar to 453.7 - 457.3 Sphalerite, galena and chalcopyrit 493.8 m.	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov. % Recov. % Rediam and thick bedded to inter-turbidite type using moderately broken con id 457.0 m. Bedding 85° to 4 457.0 m. Bedding 85° to 5, medium and thick bedded than 1 m containing more of beds in the very thin to deposition. Fracturing thout this segment. Occas sphalerite and galena in 01.2 m. Some well polished along the breaks. Bedding very thin to medium bedded Sm. Fracturing as in pre- ie in thin quartz/calcin	Bouge along fracture at Fourier Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments. vious segments continues. te filled fractures at	Skieve Claim Vine 56 + 58	and the state of t	Collar Dip	Elev.
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KXXXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 492.8 457.3 - 492.8 492.8 - 494.2 494.2 - 499.0	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Inplien Wackes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites, Lithology similar to 453.7 - 457.3 Sphalerite, galena and chalcopyrit 493.8 m. Quartzwackes and quartzitic wackes	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Re	Bouge along fracture at Fourier Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- p core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments. vious segments continues. te filled fractures at , chloritized sediments.	Vine 56 + 58	and the state of t	Collar Dip 00	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KKXXX Meterage Desc for To 453.7 - 457.3 457.3 - 457.3 457.3 - 452.8 492.8 - 494.2 492.8 - 499.0 493.0 - 502.4	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Mackes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites, Lithology similar to 453.7 - 457.3 Sphalerite, galena and chalcopyrit 493.8 m. Quartzwackes and quartzitic wackes Wackes, subwackes and argillites, Some thinly laminated intervals (m crossbedded in part. Bedding 80 t	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Re	Bouge along fracture at Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments. vious segments continues. te filled fractures at , chloritized sediments. d, chloritized sediments. d, chloritized sediments. grey, calcareous beds,	Vine 56 + 58	ei big. West	Coliar Dip	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Dbjective KXXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 457.3 457.4 - 457.3 457.4 - 508.4 - 508.2 457.4 - 508.2 557.4 - 558.2 557.4 - 55	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Mackes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites, Lithology similar to 453.7 - 457.3 Sphalerite, galena and chalcopyrit 493.8 m. Quartzwackes and quartzitic wackes Wackes, subwackes and argillites, Some thinly laminated intervals (m crossbedded in part. Bedding 80 t Quartzwackes, quartzitic wackes an	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Recov. % Recov. % Recov. % Recov. % Recov. % Medium and thick bedded, than 1 m containing more a beds in the very thin to deposition. Fracturing a sphalerite and galena in % along the breaks. Bedding bil 2 m. Some well polisher along bedding planes in failing the breaks. Bedding very thin to medium bedded. % medium and thick bedded. % Fracturing as in pre- te in thin quartz/calcing %, medium and thick bedded. % fracturing as in pre- te in thin quartz/calcing %, medium and thick bedded. very thin to medium bedded. very thin to medium bedded. % medium and thick bedded.	Bouge along fracture at Former Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments. vious segments continues. te filled fractures at , chloritized sediments. d, chloritized sediments. d, chloritized sediments. grey, calcareous beds, and thick bedded, chloritized		si - Bg.	Collar Dip	
453.0 - 453.7 Drill Hole Reco Property Vine Commenced Completed Co-ordinates Objective KXXXX Meterage Desc rom To 453.7 - 457.3 457.3 - 452.8 457.3 - 452.8 452.8 - 494.2 494.2 - 499.0 459.0 - 502.4 502.4 - 508.2	Fault, well fragmented rock in a top of zone 15 to 20° to core. District Location Core Size Markes, subwackes and argillite sediments. Predominantly distal a at low angle to core continues cau bedding well displayed at 454.9 an Quartzwackes and quartzitic wackes with occasional intervals of less type wacke, subwacke and argillite Middle Aldridge, repetative type (parallel to 25°) continues throug along fracture planes. Some s and calcite along fracturing at 49 plane breaks indicate movement a thin gouge and crushed sediments a Wackes, subwackes and argillites, Lithology similar to 453.7 - 457.3 Sphalerite, galena and chalcopyrit 493.8 m. Quartzwackes and quartzitic wackes Wackes, subwackes and argillites, Some thinly laminated intervals (m crossbedded in part. Bedding 80 t Quartzwackes, quartzitic wackes an sediments with intervals up to 1 m	Hole No. V87-1 Tests at Corr. Dip True Brg. % Recov. % Medium and thick bedded. than 1 m containing more is beds in the very thin to deposition. Fracturing & than 1 m containing more is beds in the very thin to deposition. Fracturing & sphalerite and galena in 91.2 m. Some well polisher along bedding planes in f 10 g the breaks. Bedding very thin to medium bedded % m. Fracturing as in pre- te in thin quartz/calcing %, medium and thick bedded. very thin to medium bedded innor), some medium/light to 85° to core. md wackes. Thin, medium and a of distal and inter-turb	Bouge along fracture at Page 10 Hor. Comp. Vert. Comp. Logged by Date thin bedded, chloritized deposition. Fracturing re in part. Some cross- o core. , chloritized sediments distal and inter-turbidite medium range. Typical at shallow angle to core ional thin quartz veining association with quartz d surfaces along bedding part. Occasionally some 80 to 85° to core. d, chloritized sediments. vious segments continues. te filled fractures at , chloritized sediments. grey, calcareous beds, and thick bedded, chloritized idite type wacke, subwacke	Vine 56 + 58	ari Brg. West	Collar Dip	

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811-9437

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Broperty Mine	District		V	88		
Commenced	Location	Tests at	Hor Comp	+ 92		
Completed	Core Size	Corr. Dio	Vert. Comp	"e	<u>ب</u>	, ⁸
Co-ordinates		True Brg.	Logged by		- Si	ê.
Objective	······································	% Recov.	Date	Ē	Brg.	ollar I
Kokxiki Meterage De From To	ascription				⊢ ysis	<u>8.</u>
508.2 - 524.1 (Cont'd)	inter-turbidite type sediments with thin (a few mm) quartz/ca 80 ⁰ to core.	. Fracturing commonly from lcite veins. Moderately bro	parallel to 25° to core ken core in part. Bedding			
524.1 - 532.2	Quartzitic wackes and wackes Generally thinner and more a (less than 1 m) containing and argillites. Moderately to core. Bedding 80 to 85° to	, thin and medium bedded rgillaceous beds than previc distal and inter-turbidite broken core due to fractu core.	, chloritized sediments. us segment with intervals type wackes, subwackes ring from parallel to 25°			
532.2 - 533.1	Fault zone, crushed sediment contacts.	and gouge with quartz and	calcite. Broken core at			
533.1 - 537.8	Quartzwackes and quartzitic wa Top 1 m along edge of steep di	ckes, medium and thick bedde pping fault plane (above), t	d, chloritized sediments. roken core.		\square	\vdash
537.8 - 540.4	Quartzitic wackes and wackes, abundant more argillaceous di 85 ⁰ to core.	thin and medium bedded c stal and inter-turbidite t	hloritized sediments with ype beds. Bedding 80 to	E		
540.4 - 555.5	Quartzwackes and quartzitic wa Occasional interval up to 1 m type wacke, subwacke and argi in part (minor). Bedding 60 t	ckes, medium and thick bedde containing more argillaceous llite beds. Some lighter o 85° to core.	d, chloritized sediments. distal and inter-turbiditæ grey, calcareous segments			
	***** END OF HOL	E V87-1 (1987) *****				
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DDH V87-1 SPERRY SUN SURVEYS

Footage	Azim.	Dip
Collar	270 ⁰	-80.00
427'	263 ⁰	-78.20
905'	266 ⁰	-79.20
1,427'	278 ⁰	-78.10
1,822'	274 ⁰	-79.90

EXTRAPOLATION

Footage	Length	Azim.	Dip	Sin.	<u>Cos.</u>	Vert. Comp.	Horiz. Comp.
0.0 - 213.5' 213.5 - 666.0' 666.0 - 1166.0' 1166.0 - 1624.5' 1524.5 - 1822.0'	213.5' 452.5' 500.0' 458.5' 197.5'	270 ⁰ 263 ⁰ 266 ⁰ 278 ⁰ 274 ⁰	-80.00 -78.20 -79.20 -78.10 -78.90	.9848 .9789 .9823 .9785 .9845	.1736 .2045 .1874 .2062 .1754	210.3' 443.0' 491.2' 448.6' 194.4'	37.1' 92.5' 93.7' 94.5' 34.6'
102110 102110	1822.0'					1787.5'	352.4'

	METI	RIC CONVERSION	<u>.</u>	
Length	Dip	Azim.	Vert. Comp.	Horiz. Comp.
0.0 - 65.1m 65.1 - 203.0m 203.0 - 355.5m 355.5 - 495.3m 495.3 - 555.5m	-80.00 -78.20 -79.20 -78.10 -79.90	2700 2630 2660 2780 2740	64.1m 135.1m 149.8m 136.8m 59.3m	11.3m 28.2m 28.6m 28.8m 10.5m
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			545.1m	107.4m

Diamond Drill Geological Log For D.D.H. _____

Diamond Drill Geological Log For D.D.H.	<u>V 8 7 - 2</u>
LONG. 115° 44' W ELEV. 1067 m	
DIP: - 90° AZIM.: LENGTH: 105.8m	GENERAL COMMENTS
HORIZ. COMP. VERT. COMP.	Hole V87-2 is stage one of a planned 2 stage drill program.
DATE COLLARED: July 23, 1987 DATE COMPLETED: July 25, 1987	The hole is planned to go 1000 m in stage 2 at a later date.
CORE STORAGE: Sullivan Mine Facility	No mineralization of oconomic significance encountered in
DRILLED ON CLAIM(S): Vine 54	V87-2
OBJECTIVE: Test for Pb/Zn mineralization in Aldridge sediments	
PLANNED LENGTH: 1000 m in 2 stages TERMINATION COMMENTS: Stage one completed	
DRILLED BY: Tonto Drilling (B.C.) Ltd. TYPE DRILL: Longyear 38 CORE SIZE: HQ PERFORMANCE COMMENTS: Satisfactory - ground condition good.	
	LOG LEGEND
CASING REMAINING IN HOLE (LENGTH & SIZEI: 3m H casing	CHARTZ
TYPE CAR & SEALING METHOD: Screw on type H casing can	BED THICKNESS CLASSIFICATION
LIFE DAT & SEALING METHON SUICE OIL STROUT SEALING SAL	Very Thick Bedded
OTHER MATERIAL REMAINING IN HOLE. n11	Thick Bedded
SURVEY INSTRUMENT USED: Sperry-Sun single shot	
A TRACT PIL	FELD FELD
ADDITIONAL DOWN HOLE TESTS' HII	Very Thin Bedded
	tantens's fisis stantitication of stiticiciantic recis of surveys
	Laminated
	LAHINAE 0.3 CT DDH 1/87-2
	Thinly Laminated

				Cominco				
Property VINE		District Ft. Steele M.D./Wes	stern Hole No. V87-2	• •				
Commenced July 23,	1987	Location Vine 54 Claim	Tests at 105.8 m	Hor. Comp. 1.4 m		5	0	
Completed July 25,	1987	Core Size HQ	Corr. Dip Collar -900 Ta	ail -88.5 ⁰ Vert. Comp. 105.8 m		2	Ĭ	
Co-ordinates Latitude	49° 27' N	Longitude 115° 44' W	True Brg. Collar - Tail	118 ⁰ Logged by A.S. Hagen	3	5	đ	
Objective Test for P	b/Zn mineralizat	ion in Aldridge sediments.	% Recov. 99%	Date September, 1987	Ē	6.	ar	
WWW Matanaa la		·	·····		- G	18	3	Ele
rom To	ription				Ana	alysis	3	
0.0 - 4.3	Overburden					1	+	+
4.3 - 5.2	Wacka this	ly lowinsted shlewiti-				+	+	+-
	tions. Bed	ding 80° to core.	ed sediments. Light and	medium/dark grey lamina-		1	1	T
5.2 - 11.3	Quartzwacke	s and quartzitic wackes	. Medium and thick bed	ded codimente Chlandt		T	1	Т
	alteration	effect, most apparent i	n argillaceous bed top s	ediment.				
11.3 - 16.5	Quartzitic	wackes and wackes.	thin and medium bedde	d. chlonitized codiment-			Τ	Τ
	Some beds c	alcareous in part. In	regular, current type	features well displayed				
	in some, mo	re argiilaceous, bed top	ps. Bedding 80 ⁰ to core	•				Γ
16.5 - 16.8	Wackes, thi	nly laminated, light and	d medium/dark grey lamin	ations in lightly chloritized				L
``````````````````````````````````````	- ven,					_		
16.8 - 33.7	Quartzwacke sediments	s and quartzitic wackes, Minor amount of dist	, medium and thick bedde	ed, slightly chloritized				
	bedded wack	e to argillite deposit:	ion. Some beds slight	type, very thin to medium tly calcareous in part.		1_		
	3 strongly	calcareous, medium thi	ick beds at 25.4 to 25.	.8 m. Quartz vein (less				
	chalcopyrit	e at 19.2 m. Bedding 80	20 to core.	e pyrite, pyrrhotite and		1	1	
33.7 - 44.2	Wackes, sub	wackes and annillites.	very thin to wedium bo	ddad linbtly chlasitiand			1	
	sediment.	Rare medium bed in quar	<pre>rtzitic wacke range.</pre>	Very thin fine grained				1
	sand lenses mudstone mai	s, commonly displaying kes up large portion	g crossbedding, alternat	ting with thin, dark grey	-		-	
	Bedding 75°	to 80° to core.		astenat carcareous Deo.		+		1
44.2 - 48.6	Quartzwackes	s and quartzitic wack	es, medium and thick be	edded sediments. Similar		4_	1	1
	lithology to	5 16.8 to 33.7 m.	,		-			1
						+	ļ	╞
·····				·				L
····								
rill Hole Reco	rd .			<b>◆</b> ◆				
	i u			COMINCO Page 2		1	1	
roperty Vine		District	Hole No. V87-2					1
ommenced		Location	Tests at	Hor. Comp.	13	5	°.	
ompleted	· · · · · · · · · · · · · · · · · · ·	Core Size	Corr. Dip	Vert. Comp.	ļ			
o-ordinates			True Brg.		-  >		<u>e</u>	7
biective			% Becov	Date	Γε	ġ	ar D	
					- la	Ē	3	Elev
Was Meterage Descri	ption				Anal	ysis		
			······		+	1-	1	
8.6 - 54.4	Quartzitic wa	ackes, wackes, subwackes	and argillites, very	thin to medium bedded,	-	†	$\vdash$	-
	chloritized s	sediments. Considerabl	ly more argillaceous dis coment. Abrunt charge	stal and inter-turbidite		<u>†</u>		-
	to argillaced	ous tops is common to "	ajority of these beds.	Rare, thinly laminated,	-	<u>†</u>		
	dark grey bed	1. Bedding 80° to core.			-	<del> </del>	-	-
i4.4 - 61.0	Quartzwackes	and quartzitic wackes,	medium and thick (predom	winant) bedded sediments.	-	1-	<b>†</b>	F
	Minor amount	; of inter-turbidite	type, subwackes and an	rgillites beds. Bedding	-	+		
	, a. to core.							-
1.0 - 61.4	Two distinct,	thinly laminated, ligh	t and medium/dark grey	wacke beds, 10 cm and		<del> </del>	-	
	2 CM. Separ	rated by medium prev.	- COLOCIEIZED MUDSLODE (2	applilito) Mudetopo ie			1	
	Drill Hole Reco Property V I N E Commenced July 23, Completed July 25, Co-ordinates Latitude Dejective Test for P 0.0 - 4.3 4.3 - 5.2 5.2 - 11.3 11.3 - 16.5 16.5 - 16.8 16.8 - 33.7 33.7 - 44.2 44.2 - 48.6 Drill Hole Reco Coperty Vine Commenced Completed Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descripted Descr	Drill Hole Record         Property       V I N E         Commenced July 23, 1987         Completed July 25, 1987         Co-ordinates Latitude 49° 27' N         Objective       Test for Pb/Zn mineralizat         WKWK       Meterage       Description         Iom       To       Description         Ions       Bed       Description         Ions       Bed       Description         Ions       Bed       Wackes, thi         Ions       Bed       Wackes, sub         Sediments       Bedded wackes         Ional IO cm       Sand lenses         Mudstone mai       Bedding 75°         44.2       48.6       Quartzwackes         Inthology to       Sand lenses         Description       To         Bedding 75°       Description         M       To       Description         M       To	Drill Hole Record         Property       V I N E       District Ft. Steele M.D./West         Commenced July 23, 1987       Location Vine 54 Claim         Completed July 25, 1987       Core Size HQ         Scondinates Latitude 49° 27' N       Longitude 115° 44' M         Obplective       Test for Pb/Zn mineralization in Aldridge sediments.         XMMM Meterage       Description         0.0       - 4.3       Overburden         4.3       - 5.2       Wacke, thinly laminated, chloritiz tions. Bedding 80° to core.         5.2       - 11.3       Quartzitic wackes and quartzitic wackes, alteration effect, most apparent i         11.3       - 16.5       Quartzitic wackes and quartzitic wackes, sediments. Minor amount of dist. han 18 cm thick, with minor ch. chalcopyrite at 19.2 m. Bedding 80         16.5       - 16.8       Wackes, subwackes and argillites, sediments. Rare medium bed in quarts sediments. Primedium bed in quarts sediments. Rare medium bed in quarts sediments. Considerable bed to core.         44.2       - 48.6       Quartzwackes and quartzitic wackes, bed to core.         with Hole Record       Descri	During Fig.       District Fig. Steele M.D./Western Hole No. 197-2         commenced July 23, 1997       Location Vine 54 Claim       Test at 105.8 m         completed July 25, 1987       Core Size HQ       Corr. Dp Collar - 30° T.         bappenderse Latitude 49° 27' N       Longitude 115° 44' W       Tue Brg. Collar - Tail         bygetive       Test for Pb/Zn mineralization in Aldridge sediments.       % Recow. 993         wwwW Metorage Description       0.0 - 4.3       Overburden         4.3 - 5.2       Wacke, thinjy laminated, chloritized sediments. Light and tions. Bedding 80° to core.         5.2 - 11.3       Duartzmackes and quartzitic wackes, medium and thick bedd alternation effect, most apparent in argillaceous bed top s         11.3 - 16.5       Duartzmackes and quartzitic wackes, medium dium/dark grey lamin rock.         16.8 - 33.7       Ouartzwackes and quartzitic wackes, medium and thick bedd sediments. Minor amount of distal and inter-turbidite bedded wacke to argillaceous, medium dink beds siligh 3 strongly calcareous, medium dink beds siligh 3 strongly calcareous, medium dink beds sed issent. Conberturbidites, workes, subwackes and quartzitic wackes, medium and thick bedden gave to core.         33.7 - 44.2       Wackes, subwackes and quartzitic wackes, medium and thick bedden gave to core.         44.2 - 48.6       Ouartzwackes and quartzitic wackes, medium and thick bedden gave to core.         www.Metorage       Description         www.Metorage       Descripti	Drill Hole Record       Desket FL Steple M.0./Western Hole No. V97-2         Commended July 23, 1987       Location Vine 54 Claim       Yest at 105.8 m       Hos. Comp. 1.4 m         Completed July 25, 1987       Core Size MO. Core Dia July 26, 1987       Location Vine 54 Claim       Yest at 105.8 m       Hos. Comp. 1.4 m         Completed July 25, 1987       Core Size MO. Core Dia July 26, 1987       Longitude LIS ² 44 W       The Big. Claim - Tail 138, 50%et Comp. 1.6 m         System Text For Ps/Can mineralization in Aldridge sediments.       % Record, 954       Data Systemater, 1987         Status Text For Ps/Can mineralization in Aldridge sediments.       Light and medium/dark grey lamina-time.       Light and medium/dark grey lamina-time.         A.3       D.2       MacKee, thiniy laminated, chloritized sediments.       Light and medium and thick bedded sediments.       Controls and macKees, medium and thick bedded sediments.         11.3       Coartistic wackes and quartistic wackes, medium and thick bedded, chloritized sediments.       Size Claisencous in part.       Insame, More anglilacous bed too sediments.         11.4 = Some States and quartistic wackes, medium and thick bedded, sliphtly chloritized sediments.       Size Claisencous in Bart.       Size Claisencous in part.         11.5 = 16.6       MacKes, thiniy laminater, light and medium/dark grey laminations in lightly chloritized sediments.       Size Claisencous in part.         16.6 = 33.7       Ouartstruackes and qu	Drill Hole Record       Denter Ft. Steele M.D./Western Hole No. V97-2       Hor Compt. 1.4 m         Commended UNY 23, 1987       Location Vine 56 Claim       Taske at 105.5 m       Hor Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.59%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.50%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 115 ² 44' V       Taske But, Collar - Tail 18: 0.50%mt.Compt. 1.4 m         Scandnake Littlede 4927: N       Longitude 116       Longitude 116       Longitude 116         Scandnake Littlede 4927: N       Longitude 116       Longitude 116       Longitude 116         Scandnake Scand Quartilic wackes, medium and thick bedded, liphtly chloritized sediemets. Minor asocial and intervitudist type, wrythin to medium bedded wachese start 110, 100 mittice and 110, 100 mitti	Drill Hole Record       Figure V 1 N E       District Ft. Steele N.D.//kestern Hole No. V87-2         Dammenced W/D 23, 1987       Leasabon Vine 54 Claim       Tames at 105,6 m       Hoc Comp. 1.4 m         Dependent W/D 23, 1987       Leasabon Vine 54 Claim       Corr. Dip Collar - 067 Tst1 28:05/West. Comp. 10.6 m       Tst1 28:05/West. Comp. 1.4 m         Dependent Lititude 492 27 N       Longitude 1197 44' N       Tree Big. Collar - 067 Tst1 28:05/West. Comp. 10.6 m       Tst1 28:05/West. Comp. 1.4 m         Dependent Lititude 492 27 N       Longitude 1197 44' N       Tree Big. Collar - 067 Tst1 28:05/West. Comp. 1.6 m       Tst1 28:05/West. Comp. 1.6 m         West Metraze Description       Method 1197 44' N       Tree Big. Collar - 1611 126'       Competer V.S. 1887         0.0 - 4.3       Overburden       Alacke, thinjy laminated, chloritized sedisents. Lipit and medium/dark prey laminations       District of the sediam at 0.0 cort.es         1.1.3 - 16.5       Outertsuches and Quartitic wackes, medium and thick bedded, sliphtly chloritized process.       District of cort.es         1.5.5 - 16.6       Wackes, thinly laminated, lipit and medium/dark prey laminations in liphtly chloritized process.       District of cort.es         1.6.5 - 33.7       Outertsuches and Quartitic wackes, medium and thick bedded, sliphtly chloritized process.       District of cort.es         3.7 - 44.2       Wackes, thinky laminated, lipitt and medium/dark prey laminations in liphtly chloritized end th	Duriti Hole Record       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       Image: Control Wine 54 (Jaim Test at 105.8 n       I

61.4 - 64.6 Quartzwackes and quartzitic wackes, similar deposition to 54.4 to 61.0 m.

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COMPAREMENT.

64.6 - 68.0 Quartzitic wackes, wackes, subwackes and argillites, thin and medium (predominant) bedded sediments. The more argillaceous bed top type deposition makes up 50% of this segment. Change from quartzitic to argillaceous rock occurs fairly abruptly in most of the beds. Some rip-up clasts. Bedding 78° to core.

68.0 - 84.5 Quartzwackes and quartzitic wackes, medium and thick bedded sediments. Some intervals less than 1 m containing beds in thin range. Some beds, minor overall, containing more argillaceous distal and inter-turbidite type lithologies of wackes, subwackes and argillites. Bedding 78° to core.

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84.5 - 98.3 Wackes, subwackes and argillites, very thin to medium bedded sediments. Segment contains one thick (60 cm) quartzwacke bed with base at 93.3 m. Zone is typical Middle Aldridge distal and inter-turbidite type deposition. Numerous intervals from 1 to 25 cm of thinly laminated, light and medium/dark grey wackes. Occasional

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Drill Hole Rec	ord		2	COMINCO Page 3				
Property Vine	District	Hole No. V8	7-2	•				
Commenced	Location	Tests at		Hor. Comp.	3	5	0 S	E
Completed	Core Size	Corr. Dip		Vert. Comp.	÷	11	1	067
Co-ordinates		True Brg.		Logged by	~ ^	1.	ā	~
Objective		% Recov.		Date	i	2 B	llar	Š.
ROMXANO Meterage Des From To	scription	· · · ·				ilysis	18_	
84.5 - 98.3 (Cont'd)	calcareous bed. Chlorite and Bedding 78° to core.	biotite alteration eff	fects highlighte	ad at 86.7 m.		╞	<u> </u>	
98.3 - 104.0	Quartzwackes and quartzitic war Minor amount of distal and in deposition. Bedding 78° to co	ckes, medium and thick ter~turbidite type, re.	( (predominant) wacke, subwach	bedded sediments. <e and="" argillite<="" td=""><td></td><td>$\pm$</td><td></td><td></td></e>		$\pm$		
104.0 - 105.8	Quartzitic wackes, wackes, sub Thinner and more argillaceous argillaceous distal and inter-	bwackes and argillite beds than in previo turbidite type sedimen	is, very thin t ous segment. C ot. Bedding 75	o medium bedded. Considerably mor <del>e</del> to 80 ⁰ to core.		+		
	***** END OF HOLE	E V87-2 (1987) *****			E	-	$\square$	
	•					1		
							+	·
			•			$\pm$		
	V87-2 SPERR	Y-SUN SURVEY	•					
	<u>V87-2 SPERR</u> Footage <u>Azi</u>	<u>Y-SUN SURVEY</u> m. <u>Dip</u>	•					
	<u>V87-2 SPERR</u> <u>Footage</u> <u>Azi</u> 347' 118 (105 m)	<u>RY-SUN SURVEY</u> <u>m.</u> <u>Dip</u> 0 -88.5 ⁰	•					
	<u>V87-2 SPERR</u> <u>Footage</u> <u>Azi</u> 347' 118 (105.8m)	<u>XY-SUN SURVEY</u> <u>m. Dip</u> 1 ⁰ -88.5 ⁰	•					
	<u>V87-2 SPERF</u> <u>Footage Azi</u> 347' 118 (105.8m)	<u>XY-SUN SURVEY</u> im. <u>Dip</u> ;0 -88.50	•					
	<u>V87-2 SPERF</u> <u>Footage</u> <u>Azi</u> 347' 118 (105.8m)	<u>XY-SUN SURVEY</u> <u>im. Dip</u> 10 -88.50	•					
	<u>V87-2 SPERF</u> <u>Footage</u> <u>Azi</u> 347' 118 (105.8m)	<u>8Y-SUN SURVEY</u> <u>im. Dip</u> 3 ⁰ -88.5 ⁰	•					
	<u>V87-2 SPERF</u> <u>Footage</u> <u>Azi</u> 347' 118 (105.8m)	<u>XY-SUN SURVEY</u> <u>im. Dip</u> 3 ⁰ -88.5 ⁰	•					
	<u>V87-2 SPERF</u> <u>Footage</u> <u>Azi</u> 347' 118 (105.8m)	<u>XY-SUN_SURVEY</u> i <u>m. Dip</u> 3 ⁰ -88.5 ⁰	•					

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PLATE 1.

# CANADA



