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British Columbia

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	Province of British Columbia	Ministry of Energy, Mines and Petroleum Resource	GOLD COMMISSIONER CEFORT STEELE MINING DIVISIPI CRANBROOK, B.C.	ASSESSMENT REPORT
	TYPE OF REI	PORT/SURVEY(S)		TOTAL COST
	Drilling (DDCH #645	58)		\$28,451.72
	AUTHOR(S)P.W. Ransom		~ / / /	Midam
ノ			1/4/2/01 1/4	
•				YEAR OF WORK 1985
	PROPERTY NAME(S)		۳. ۲ 	
•				•••••
	B.C. MINERAL INVENTORY NUMB			
	MINING DIVISION Fort.S	teele	NTS	825/18 R2F/9E
	LATITUDE	}!N	LONGITUDE	116°.01'.W
	NAMES and NUMBERS of all mineral (12 units); PHOENIX (Lot 1706); Mine	tenures in good standing or iral Lease M 123; Mining or	(when work was done) that form the p Certified Mining Lease ML 12 (claims	roperty [Examples: TAX 1-4, FIRE 2 involved)]:
		1.913.mineral.cla	aims.or.units.held.by.a	nted mineral claims
	OWNER(S)			
	MAILING ADDRESS			••••••
	. Box 2000			
	Kimberley, B.C.,.	V1A .2G3	GEOLOGICA	
	OPERATOR(S) (that is, Company payi	ing for the work)	ASSESSMEN	TRANCH
_	(1) As above		(2)	z un hali ib d
	S(1) 1 1		📠	
	MAILING ADDRESS	•	4 1	
	As .above		1 /1	
				レノリ
	SUMMARY GEOLOGY (lithology, age	structure alteration min	eralization size and attitude):	
	The drill hole ::			d and sheared argillite,
	silicified metasedime		intrusive body; all p	
		and the second s		lization is present
		:	• • • • • • • • • • • • • • • • • • • •	
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	· ·		A contract of the contract of	

1594

COMINCO LTD. Sullivan Mine Kimberley Operations

BC Geological Survey Assessment Report 14150

SULLIVAN MINE GROUP OF MINERAL CLAIMS

		December 31	,1984
		Number of	Units
1.	Crown Granted		680
2.	Held by Assessment:		
	Luke Group	75	
	Rho Group	20	
	Med Group	15	
	Donna, Etc. Group	15	
	Uke Group	11	
	Mar Group	17	
	Bad Group	36	
	Late Group	91	
	Mat Group	268	
	Jackpot	1	
	8 Dip M.C.	56	
	14 Fal M.C.	84	
	3 Golf M.C.	17	
	2 Quark M.C.	12	
	7 Reverted 2 Post Crown-granted	7	
	3 Fin M.C.	18	
	Tip, Sun, Hope, Cue, Reverted Crown-		
	granted M.C.	24	
	3 Mead M.C.	36	
	9 Gin M.C.	110	
	Sub Total Group 2	•	913
3.	Greenhorn Mineral Lease		1

A.L. Burrows/ml December 20th 1984

GRAND TOTAL (1 + 2 + 3)

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B.C.

PINE ASSESSMENT REPORT

Endorsed For Release By:

D. McMurdo Chief Geologist, Kimberley

TABLE OF CONTENTS

	Page
Introduction	1
Index Map	2
Drilling Surface Plan	3
Detailed Technical Data and Interpretation	4
Itemized Cost Statement	5
Author's Qualifications	6
Appendix - Invoices and Diamond Drill Log	7-23

Introduction

1. Specific Location

DDH 6458, the hole being reported on, was drilled 2,000 feet west of the north part of the Sullivan orebody. Access to the drill site is by private road.

2. Property Description

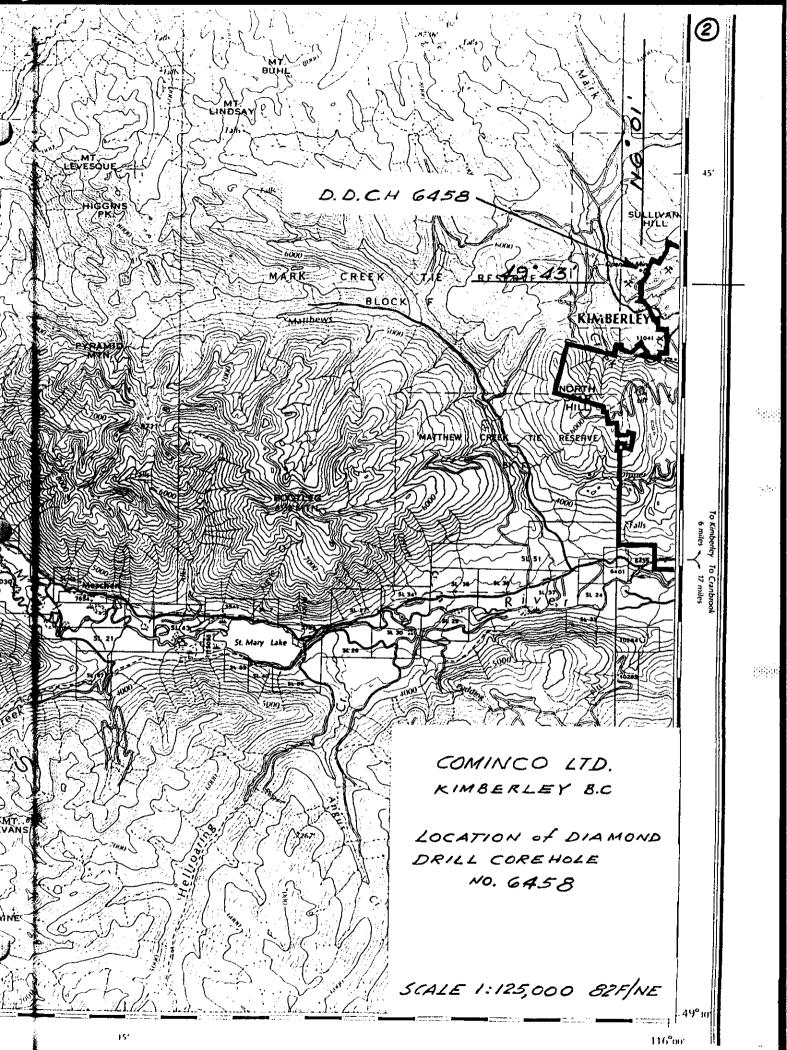
The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd. Cominco has operated the mine for about 75 years. The Sullivan stratiform Ag-Pb-Zn-Fe sulphide deposit is one of the most important of its type worldwide and has contributed significantly to the mineral wealth generated in the province of British Columbia.

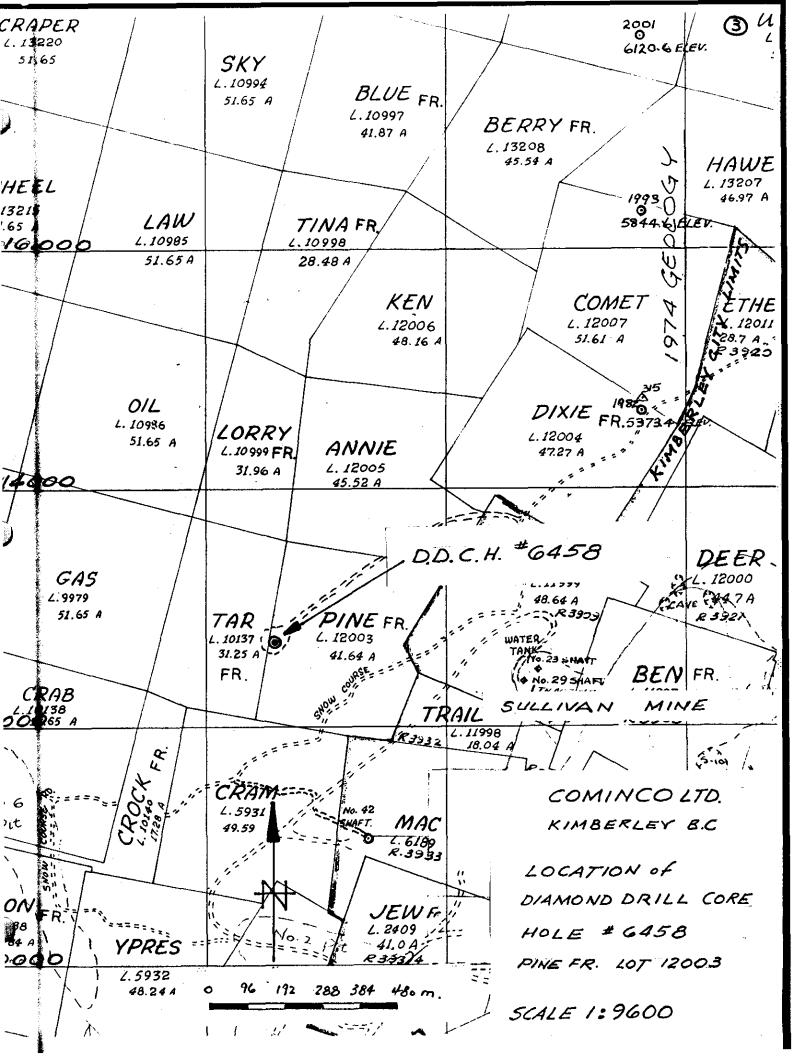
3. Drilling

One hole is being reported on. It was collared at -90° dip and was drilled to a depth of 247 metres using H wireline tools 9.6 cm in diameter.

4. Claims Explored

DDH 6458 was drilled on the Pine Crown Granted Mineral Claim.





Detailed Technical Data And Interpretation

A. Objective

The objective of drilling DDH 6458 was to locate stratiform Ag-Pb-Zn-Fe sulphide ore.

B. Results

DDH 6458 intersected metasedimentary rock with scattered fracture and disseminated pyrrhotite. Sphalerite was observed but is much less abundant than pyrrhotite.

C. Interpretation

0 - 4.0 m Overburden and weathered bedrock.

4.0 - 95.0 m Predominantly argillite, medium grey (greenish) with light grey and black laminae, intensely cleaved to 37.5 m and schist 37.5 to 95.0 m, folds noted throughout.

95.0 - 243.0 m Metasedimentary rock, probably silicified quartzitic wacke, wacke and subwacke. Primary sedimentary bedding was noted but is rare, brecciation is common. Altered igneous rocks, probably metagabbro, occur from 185 to 194 and from 197 to 199 m. Pyrrhotite, although not particularly abundant, is present in scattered fractures, aggregates and disseminations. Pyrrhotite is disseminated along laminations between 225.3 and 225.9 m. Sphalerite was observed only in trace quantities at a few points.

243.0 - 247.0 m Gabbro.

D. Conclusion

DDH 6458 intersected sheared argillite, altered siliciclastic rocks, and gabbro, all part of the Middle Proterozoic Aldridge Formation. No ore was intersected.

DDH 6458

Start: May 28, 1985 Contractor: Longyear Canada Inc. Finish: June 4, 1985 Location: Kimberley, B.C.

Drilling Costs, Contractor	Invoice No.	Amount
Drilling 0 - 810 feet (247 m)	71 66	\$ 10,955.00
	7286	6,660.00
Move In	7166	2,765.00
Move From	7286	1,817.00
Reaming	7286	94.00
Testing	7286	94.00
	7166	94.00
Equipment Left In Hole	7286	559.04
Cominco And Other Charges		
Site preparation and move drill		2,174.00
Hauling Contractor	P.O. 117672	275.00
Drill Mud		775.68
Core Boxes		279.00
Vehicles, Rental		200.00
Supervision, log, report		1,710.00
TOTAL		\$ 28,451.72

Author's Qualifications

As author of this report, I, Paul W. Ransom, certify that:

I am a geologist active in minerals exploration.

I am a graduate of McGill University with a degree of Bachelor of Science.

I have been continuously engaged in mining and exploration geology for eighteen years.

I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Sullivan Mine area exploration drilling program in 1985.

P.W. Ransom, G.A.C.

erley **operations**



APPENDIX

INVOICES AND DIAMOND DRILL LOGS



DIAMOND DRILLING AGREEMENT

EAST KOOTENAYS

1985

THIS IS SCHEDULE C TO THE AGREEMENT DATED APRIL 2, 1985

BETWEEN COMINCO LTD. AND

Longyear Canada Inc.

This Schedule sets forth the rates referred to in subsection 4.02 of the Agreement.

RA	TES FOR SERVICES PERFORMED	RATES PER FOOT		
	BY CONTRACTOR	<u>HQ</u>	NQ	BQ
1.	Drilling Rate for HQ, NQ and BQ wireline core drilling:	P ₁		
	0 - 500 feet of depth	21.25	17.90	17.90
	500 - 1000 feet of depth	22.50	18.80	18.80
	1000 - 1500 feet of depth	24.00	19.80	19.80
	1500 - 2000 feet of depth	25.65	21.20	21.20
	2000 - 2500 feet of depth	27.60	22.90	22.90
	2500 - 3000 feet of depth		24.95	24.95
2.	Drilling and casing of overburden as required:	HW Casing		NW Casing
	A. Rate per foot of hole depth			
	0 - 100 feet of depth	22.50		22.50
	100 - 200 feet of depth	24.00		24.00
	200 - 300 feet of depth	25.65		25.65

- B. If the total depth of overburden exceeds 300 feet in any one hole the Contractor will have the option of charging rates as specified in 2 A. or the Field Cost Rate for all casing required deeper than 300 feet.
- Where it is necessary to telescope casing it is agreed and understood that only the rate for the largest casing used will be charged throughout the telescoped section.
- Reaming and casing of hole in bedrock if required. Reaming will only be charged when the diameter of the hole is increased.

Field Cost Rates

4. Moves.

A. It is agreed that the moving of drill equipment, supplies and personnel from the highway truck discharge point to the initial drill site, between drill sites and return from final drill site to the highway truck loading point will be for the Company's account at a rate of:

\$39.50 per man hour.

Drill rental will not be charged during drill moves.

B. Moving shall be interpreted to include breaking rods, tearing down and dismantling machinery, moving, setting up, loading or off-loading equipment and installation of water line, pumps and heaters.

5. Mobilization and demobilization of the Contractor's crew complete with entire equipment and supplies from the Contractor's base of operations to the first drill site and return to Contractor's base of operations from the last drill site on completion of the work.

No charge to the Company.

 Fuel for the operation of drill, camp, tractor, water pumps and all ancillary equipment will be supplied by the Contractor.

No charge to the Company.

7. Lubricants. All lubricants for the operation of the drill and all ancillary equipment will be supplied by the Contractor.

Cost plus 12 % f.o.b. drill site.

8. Mud. Drilling mud and additives supplied by the Contractor shall be charged to the Company at a rate of:

Note: Cominco Ltd. intends to have drilling mud and additives available at its core laboratory near the Sullivan Mine. For drilling located within the Kimberley watershed, vegetable oil supplied by the Company shall be used instead of diesel oil for Qwik Trol dispersal.

ractor Cost plus 12 % f.o.b. drill site.

9. Cement will be supplied by the Contractor as required and charged to the Company at a rate of:

casing as required to carry on the work. Casing that is left in holes at the request of the Company will be charged to the Company at a rate of:

Cost plus <u>nil</u> % f.o.b. drill site.

B. Recovery of casing from holes if requested by the Company will be charged to the Company at a rate of:

Field cost rates.

11. Drill rods, core barrels, core bits, reaming shells, casing shoes and other down-hole tools lost or damaged in holes without negligence on the part of the drill crew during a period when work is being performed at field cost rates will be charged to the Company at:

Cost plus nil %.

-12. Core delivery. The Contractor will deliver the core to the Company once per day as follows: For the Sullivan Mine program - to the core lab at the mine; for the Regional Program - to a local facility in Invermere or to the Cranbrook office.

\$_nil____ per delivery.

-13. Cementing for lost circulation, if required and agreed to by the Company's Representative, will be performed by the Contractor at:

Field cost rates.

14. Travel Time for shift changes from nearest available commercial accommodation to drill site and return.

\$ nil per man hour.

15. Field Cost Rates: It is agreed that the field cost rates shall be interpreted here and hereinafter to be:

Labour - \$ 32.00 per man hour.

Drill Rental (and ancillary equipment)

\$ 30.00 per machine hour. (If two drills are quoted and rates are different, please specify.)

Materials and supplies consumed: Cost plus nil %.

16. Delays.

A. Any delays caused or requested by the Company will be charged to the Company at a rate of:

\$ 39.50 per man hour.

B. All other delays, such as mechanical breakdowns, shortage of supplies, materials, tools, or drill crew, etc. will be for the Contractor's account including freight.

No charge to the Company.

C. Delays caused by mechanical breakdowns or other aspects of the tractor operation or due to road plowing will be charged to the Company at:

\$ 39.50 per man hour, no machine rental.

17. Water Lines.

A. The Contractor will supply 2000 feet of water line, complete with a Bean 435 or equivalent pump capable of supplying an adequate supply of water to the drill and complete with up to a 300-foot lift.

No charge to the Company.

B. Should the work require water lines of greater length the Contractor will supply line required and the Company will pay for the installation and maintenance of the entire water line at a rate of:

Field cost rates including freight if additional equipment required.

18. Radio Communication. The Contractor will supply radio communication between his 4-wheel drive vehicles and logging vehicles operated by Crestbrook Forest Industries and, for the Blondie, for logging vehicles operated by Revelstoke Sawmill Ltd. No charge to the Company.

19. Logging and surveying if required, tools and/or instruments will be supplied by the Company. Drill crew will be charged to the Company at:

\$ 47.00 per man hour.

20. Core Boxes as required will be supplied by the Company at:

No charge to the Contractor.

21. Freight and service transportation once drilling has commenced the transportation of any additional equipment and supplies required by the Contractor will be for the Contractor's account.

No charge to the Company.

PAGE 5.

22. Accommodation. The Contractor's crew will be domiciled in the nearest available commercial accommodation at:

No charge to the Company.

23. Chert Surcharge. An extremely hard rock known locally as "chert" is occasionally encountered. If according to Cominco's representative this rock is encountered, the drilling rates noted in Item 1 shall be increased by:

50%

----- UNILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Cominco Limited P. O. Box 2000 Kimberley, B.C. VIA 2G3

Invoice No. 7166 Cust. No. 6348 Job No. 6362 Dest. 062

Invoice Date June 11, 1985 for May 1985

To: Invoice for Diamond Drilling performed near Kimberley, B.C. during period May 11 - 31, 1985. Per Agreement dated April 2, 1985.

Hole No.	Size	From	То	Total	Rate	Amount
6457	Overburden	0	100	100 -	22.50	< 2,250.00 ×
	н	100	101			
	HQ Wireline	101	500	399	21.25	24.00 < 8,478.75 < 29,3 ¹ < 11,250.00 × 29,3 ¹
	H	<i>500</i>	1000	500 -	22.50v	11.250.00
	Ħ	1000	1305	305 ~	24.00%	7,320.00 1 29:22
458	Overburden	0	12	12 ~	22.50	270.00
	HQ Wireline	12	500	488 /	21.25	10,370.00
	p	500	514	14 ~	22.50 -	315.00 € 13 15
				18T3		$40,\overline{277.75} \sim -$

2.5

Moves -113-130-W279 To Hole 6457 - 72 Man Hours @ 39.50 Hole 6457 to 6458 - 70 Man Hours @ 39.50

2,844.00 2,765.00 × 5,609.00 ~

Client Testing

Hole 6457 - 7 Man Hours @ 47.00 Hole 6458 - 2 Man Hours @ 47.00

329.00 ₺ 94.00/ 423.00 -

Reaming + Lost Circulation - Hole 6457

22 Man Hours @ 32.00 II Machine Hours @ 30.00 I HQ Bit 6R 32497 Prorated Use - See Later Invoice

704.00 330.00 797.15 _____

1,831.15

Left in Hole HoTe 6457

10 HN 10' Casing @ 157.24 I HW Shoe Econo

1,572.40 262.15

1,834.55

, canada inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Cominco Limited

Invoice No. 7166

Ref: Invoice 7164 Did Read Client Testing

2½ Man Hours @ (47.00) Credit

(117.50) Cr.

205.00

Should Read Client Testing

I Man Hour

47.00

Moves From Hole 6456

4 Man Hours @ 39.50

158.00

87.50

50,062.95

Charge the following amounts to associated codes:

6112.56

6/12,57 36,082.45

6112.58 -

Water dalays of I hour on May 16, 17, 21 and 23 were not channed. An adjustment should follow.

mron 24/8

Cominco Gim P.O. Box 20 Kimberley, V1A 2G3

Longyear Canada Inc.

Dest.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 7286 Cust. No. 6348 Job No.

6348 ORGINAL

Invoice date June 14, 1985 for June, 1985

To: Invoice for diamond drilling performed near Kimberley, B.C. during period June 1-5, 1985 per agreement dated April 2, 1985

Hole No.	Size	From	То	Total	Rate	Amount
6458	HQ Wireline	514	810	296 🗸	22.50	6,660.00~
Moves					, A ^{rr}	
Hole 6458	to Storage				-	<u>~</u>
46 Man ha	ours @ \$39.50					1,817.00
Client Te	esting					
Hole 6548						. سر ^ا
2 Man hou	rs @ \$47.00					94.00
Reaming						
Hole 6457						
Prorated	Use Re HQ Bi	t GR 3249.	7 - See La	iter Inv -		
Hole 6458						
	rs @ \$32.00			64.00		
1 Machine	Hour			30.00	94.00	`
						94.00
Left in He	ole					

Lejt in Hole

Hole 6458

3 HW 2' Casing @ \$46.55

139.65

we) car

Cominco Limited

1 HW 10' Casing 1 HW Shoe Econo -2-

Invoice No. 7286

157.24 262.15

559.04 ×

17

\$9,224.04

				E111761	ICCK)	<u> </u>		<i>L/</i> (/	- 		•		DAIL	Je s	IX X	5/1985
e e e e e e e e e e e e e e e e e e e	39.50	F	14.	, a	er a er er	e tu n sin tol	इंडिज प्राप्त कार्यक ने स्थानकार विश्वन कर के अपने क्षा कर कर कर कर के अपने कार्यक कर के अपने कर के अपने कर के		me in p arasi	en lenner		and the second	1	and the state of t		emperator, selection of a second
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f. 12,721.07 DEP. 568.39 ELEV. 5220.88			
: -90° AZIM.: - LENGTH: 810 Feet	GENERAL COMMENT	S: Down Hole Survey:	•
RIZ, COMP. VERT. COMP.		Depth Dip Azm.	
E COLLARED: May 29, 1985 DATE COMPLETED: June 3, 1985		200' -85.3° 139°	S 41E
RE STORAGE:		402' -82.0° 137° 602' -80.6° 133°	543E
LLED ON CLAIM(S): Pine	 	602' -80.6° 133° 802' -78.0° 122°	S + 7 E S 58 E
JECTIVE: To locate ore west of the Sullivan Mine		002 -70.0 122	5 30=
ANNED LENGTH: 800'			
RMINATION COMMENTS: Intersected gabbro arch at 796.5!.			
			
ILLED BY: Longyear Canada Inc.			
PE DRILL: 44	**		
RE SIZE: HQ		· · · · · · · · · · · · · · · · · · ·	
RFORMANCE COMMENTS: Good			
,			
			
		1.06.1	EGEND
SING REMAINING IN HOLE (LENGTH & SIZE): 12"		E	E GETTO
PE CAP & SEALING METHOD: Welded cap	BED THIC	KNESS CLASSIFICATION	LITHOLOGY ABBREVIATIONS
PE CAP 8 SEALING METHOD: Welded cap		Very Thick Bedded	
ER MATERIAL REMAINING IN HOLE!		100 cm	0Q - Orthoquartzite
		Thick Bedded	SA - Subarkose
		30 cm	QW - Quartz Wacke
	BEDS	Medium Bedded	
RVEY INSTRUMENT USED: Sperry Sun		10 cm	QCW - Quartzitic Wacke
OTTONIAL COURT HOLE TESTS:	 ·	Thin Bedded	W - Wacke
DITIONAL DOWN HOLE TESTS:		Very Thin Bedded	SW - Sub Wacke
	-) cm	AG - Argillite
		Laminated -	***************************************
	LAMINAE	0.3 cm	D.D.H. 6458
	1 1	Thinly Laminated	N.D.D. 0430

The second secon

Diamond Drill Geological Log



							• •		40 Scale	
Object	ive:				Sampled:				Color Plot & Dips	Ore Classes & Aver.
Logge	d By:		Date:		Composites:				0	
Block:			Sect.:	Place:	1	App. Bear:	App.: Dlp.:	Length:	-	
From	To	Discard:		Reason;		<u></u>			_	
	(Feet			ripeauri.						
0.	13.0	Overburden	and weathered bedrock	. No core	recovered.				 	-
				,		·	······································		┨	
13.	123.0	Argillite,	minor subwacke, predo	minantly li	ght grey, charac	terized by both b	nlack and light o	rov laminae laminae	-	
		contacts a	minor subwacke, predo re generally sharp and	flat, part	icularly the bla	ck ones. Light g	rey laminae tend	to be wavy both on	-	
		top and bo	ttom. The rock is cha	racterized	by pervasive sla	ty cleavage and f	folding is common	. Quartz veinlets are	-]	
		common, so	me are flat and parall	el to cleav	age, others pred	ate cleavage and	have a pytgmatic	appearance. Cleavage	-	
			from mapping, to dip n							
		Depth	Bdg. Dip	Cleavage D			g basea on that	1466.	1	
		20' 0.T	.65°N to flat, South	25°N	Small fold,	plunges gently	N290			
			and back to 60°N		<u>-</u>			· · · · · · · · · · · · · · · · · · ·	1 111	
		24' 0.T	.57°N	35°N					1 111	
		35' 0.T	.60°N	31°N					1 111	-
		50'	90°	26°N	Several folds	s 40'-45'			1	
<u> </u>		55' 0.T	.48°N	40°N					1 1111	·
		65'	50°N	50°N	No cutting re	alationship noted	•] [[]	
		731	90°	40°N					1	
		84'	55°N	35°N				······································	<u> </u>	
		81'	37°N	25°N	Bdg. and clea	v. are parallel	to 98'.		1	
		99	90°N	53°	Folding				1	
		105 <u>41</u> 108′S	econd foliation; kink b	oands.		<u>.</u>	Core Size			
	ļ	112'	25°	25°	1-2cm OW beds	. intrafolial dis	sruption, un			
	<u> </u>	112.5'	90°	55°	cleavage reco		,,,,,			<u> </u>
	<u> </u>	114-115'	Kink banding				Hole No.	Page		
		121'	43°	53°		· · · · · · · · · · · · · · · · · · ·	6458	1		
	• , •	•					1 5,30	•	1111	2507-

Diamond Drill Geological Log

Y.	
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Objecti	ve:			Sam	pled:				Color Plot & Dips	Ore Classes & Aver.
Logged	l Rv-		Date:	Corr	posites:				0-111	
Block:	- 		Sect:	Place:		App. Bear:	App.: Dlp.:	Length:	-	
From	Ιτο	Discard:	<u> </u>	Reason:		<u> </u>	<u> </u>		4	
					<u>.</u>]	1))
123.0	312.0	Schist, same	general lithology as	preceeding in	terval. Béd	ding is discernable	to 230' with	dips from 90° to 0°,]	
	<u> </u>	most commonly	sub-parallel to shea	ring. Sheari	ng core angl	es: 44° @ 133', 60°	@ 149', 40° @	155', 60° @ 174',]	
	ļ	47° @ 182', 4	5° @ 195', 55° @ 211'	(bedding c/a	45°), 57° @	225', 60° @ 242',	58° @ 259', 58'	0 270', 65° 0 285',]	Ш
	<u> </u>	63° @ 294', 6	0° @ 308'. From 280'	schist is pr	ogressively '	<u>lighter in colour -</u>	more bleached	<u>looking</u> . Kink bandin	9	Ш
	 						<u>segregations</u>	up to 10cm wide; one	_	
. 	 - -	1.5 cm wide a	t 233 contains deep r	eddish brown	sphalerite t	o 1 cm wide.			-	
			·						 	
312.	0342.0		ry rock, possibly was	<u>quartzitic w</u>	<u>acke initial</u>	ly, brecciated (heal	ed) and silic	ified, sheared in	-	Ш
	 	places.							-	111
342.0	0345.0	Brecciated an	d sheared quartzite/p	vrite rock.	·		·		-	1))
				<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					-	
345.0	12.0	Silicified me	tasediment, brecciate	d and/or shea	red (variatio	ons in intensity), p	yrrhotite note	ed.	1 1111	lii-
] [111
412.0	0607.0	Silicified me	tasediment, healed fr	actures throu	ghout. Shor	t intervals of breco	ia or shearing	g, minor broken core.]	
		Primary beddi	ng plane contacts sus	pected in a f	ew places but	t none are convincin	g. Several go	ouge and breccia]	
		zones up to 2	5 cm thick 552-562.5'	. Hornfelsic	alteration (<u> 604.0 - 607.0. Mark</u>	edly less sili	ceous below 570'.	<u> </u>	
]	ili
607.	0637.0		d igneous (?) rock.	Colour is dar	k grey with	fine white flecks (p		There is probably] []]	Ш
	 	some included	sediment.				Core Size			
627	OF AF C	M-4		D	1		-			
63/.	<u>Jip45.0</u>	Metasediment, rock.	hornfelsic texture.	Base of inte	rval gradatio	onal into underlying	Hole No.	Page		
	 					····	4	^		
							6458	2	t till	()(2507

Diamond Drill Geological Log



Objecti	ve:				Sampled:					Color Plot & Dips	Ore Classes & Aver.
Logged	By:		Date:		Composites:					0-111	
Block:			Sect.:	Place:	i	App. Bear:	App.: Dlp.:	Length:	·		
From	Ιτο	Discard:		Reason:		<u> </u>				1 []]	·
											111
645.0	654.0	Highly altere	d igneous (?) rock,	similar to	607.0 - 637.0'	•				{	-
654.0	704.0	Hornfels, pro	bably originally a	wacke (not	silicified). Fo	oliation (schis	tosity and miner	al alignment) 52° t	o core]	
		and bedding varies from 0° to 45° to core at 665'. Pyrrhotite is present in a network of scattered fractures									
		disseminated grains (often aligned parallel to foliation). Very hard interval with reddish-brown (biotite?)]]]]	
	<u></u>	alteration fr	om 694 - 696'.					<u> </u>			
704 (11 60 / 4	<u> </u>							<u> </u>	—
/04.1	1/28.0		Q₩), medium grey (g								111
	<u> </u>		as veinlets and ag						tions.	1111	111
	├ ─	Distribution									
	 	<u>Sphalerite no</u>	ted in 1 mm veinlet	at 704 and	it may accompan	y some of the	pyrrhotite as fi	ne dust.			.
 -	 										
728.	769.0	· ·	ntervals possibly S								
		i	convincing. Beddin								111
			weakly disseminated						nterval		
		WICHIN WATCH	pyrrhotite is disser	inated aro	ng bedaing (poss	sibly associate	a with fine blot	ite).			
760 (772 0	lilacko modilim	anny contented be-	lding and		<u></u>					
703.0	773.0	wacke, medium	grey, contorted bed	<u>laing and,</u>	possibly clasts.	·					
773.	796.5	Wacke, progre	ssively more silice	ous below 7	86'. Good lamin	ae @ 79° @ 778	, bdg Core Size			1111	<u> </u>
			3'. Weak breccia te								
			intrusion. Pyrrhot						ļ		<u> </u>
			pyrrhotite grains in				Hole No.	Page			
								6458	,		
							l	- -	J [1111	[[250?

	Objective:		Sampled:				Color Plot & Dips Ore Classes & Av		
Ogged By: Date:		:	Composites:	πρosites:				OTO COLESSOS & AVI	
	Sect.:	Place:	^	pp. Bear:	App.: Dip.:	Length:	- °∏∏		
То	Discard:	Reason:	· · · · · · · · · · · · · · · · · · ·				_		
.5810.0	Gabbro Fine-orained 7	06 6 0001 11 11				· .	_	-	
-90.0.0	Gabbro. Fine-grained 79	90.5 - 803'. Medium	<u>-grained 803 - 810</u>	·					
	17,11	\bigcirc							
	1/W1	auson		·				- 111	
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