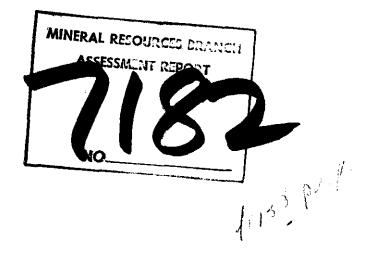
BC Geological Survey Assessment Report 07182

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COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B.C.

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X.L. = STONEY GROUPS ASSESSMENT REPORT

The following report describes the results of deepening by drilling, diamond drill hole 6799 from a 749 metre depth to a 1525 metre depth, in the Kimberley area on the X.L. and Stoney Crown-granted mineral claims in the Fort Steele Mining Division.

> The N.T.S. location is 82 G/12 Latitude 49⁰ 43' North Longtitude 116⁰ 00' West

Cominco Ltd., owner of the claims was the operator of the exploration program.

P. Klewchuk is author of this report.Data of Submission: February, 1979

Endorsed for Release by:

Ĵ.M. HAMILTON, P. ENG. Chief Geologist, Kimberley

INTRODUCTION

i) Specific Location

D.D.H. 6799 is located in the 4000 Scram in Sullivan Mine, Kimberley. Access to the site is through mine workings and requires the approval of the Mine Superintendent. The site itself is likely to remain accessible for a number of years, however, mining may destroy the collar within a year or two. An index map showing also the location of the mine office is attached, Figure 1.

ii) Property Definition

The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd. Cominco Ltd. has operated the mine for about 71 years. The Sullivan orebody is one of the largest base metal deposits in British Columbia and it has contributed a major proportion of the mineral wealth generated in the province.

- iii) The lower portion of one hole is being reported on in this report.
 The first stage of drilling, to 749 metres, was reported on previously in a submission by geologist P.W. Ransom dated September, 1978. D.D.H.
 6799 was drilled from 749 metres to 1525 metres using special NBQ wireline tools 7.6 cm. in diameter. Core recovered was 3.65 cm. in diameter.
- iv) D.D.H. 6799 was collared on the X.L. Crown-granted mineral claim and crossed onto the Stoney Crown-granted mineral claim at a depth of 874.5 metres. The point at which D.D.H. 6799 crossed the claim boundary was determined by comparing survey calculations of the collar of the hole, the surveys of the claims on surface, and down-hole surveys done at 30 to 50 m. intervals with a Sperry Sun Single Shot down hole survey device.

DETAILED TECHNICAL DATA AND INTERPRETATION

I) Purpose

The purpose of D.D.H. 6799 was to test at depth ground directly below the Sullivan orebody adjacent to the zone of tourmalinite alteration in the footwall of the orebody. 4

ii) Results

No mineralization of economic value was encountered in D.D.H. 6799 from a depth of 749 metres to a depth of 1525 metres. Descriptive logs accompany this report.

iii) Interpretation

749-845.5m Medium, thin and occasionally thick bedded siliceous sediments, mainly wacke with minor subwacke and quartzitic wacke. Some alteration effects of an overlying intrusive gabbro are evident in the upper part of the zone. Short sections of core were lost during drilling.

845.5-848m Brecciated wacke with quartz-calcite-pyrrhotite veining.

Thin, medium and thick bedded wacke with minor quartzitic wacke, subwacke and argillite. Porphyroblastic development of biotite and feldspar occurs locally. Metamorphic effects of the underlying intrusive gabbro are increasingly evident as the contact at 913m is approached.

913-1064m Moyie instrusive; gabbro

<u>1064-1230.5m</u> Siliceous sediments, predominantly medium, thin and thick bedded wacke, with minor quartzitic wacke, subwacke and

ð.

argillite. Alteration effects of overlying and underlying gabbros are evident nearer the contacts. Porphyroblastic development of biotite, commonly with minor phrrhotite, is present-locally. 1

- 1230.5-1250m Moyie instrusive; gabbro
- <u>1250-1255m</u> Altered siliceous sediments. Medium and thin bedded wacke and subwacke.
- 1255-1416m Moyie instrusive; gabbro.
- <u>1416-1525m</u> Siliceous sediments, predominantly medium, thin and thick bedded wacke with minor quartzitic wacke, subwacke, and argillite. Alteration effects caused by the overlying gabbro are strongly evident near the contact.

The lower part of D.D.H. 6799 from 749 metres to 1525 metres penetrated a normal sequence of Aldridge sediments and Moyie intrusive gabbros.

iv) Conclusions

 $\sum_{i=1}^{n} \frac{1}{i} = \sum_{i=1}^{n} \frac{1}{i}$

No economic mineralization occurs in the area of Sullivan Mine footwall sediments penetrated by D.D.H. 6799 from 749 metres to 1525 metres.

The rocks encountered in the coring are typical sediments of the Aldridge Formation that have been intruded and altered by Moyie intrusives.

AUTHOR'S QUALIFICATIONS

* É

As author of this report, I, Peter Klewchuk certify that:

I am employed by Cominco Ltd. as a geologist active in minerals exploration.

I am a graduate of the University of British Columbia with a degree of Bachelor of Science in geology.

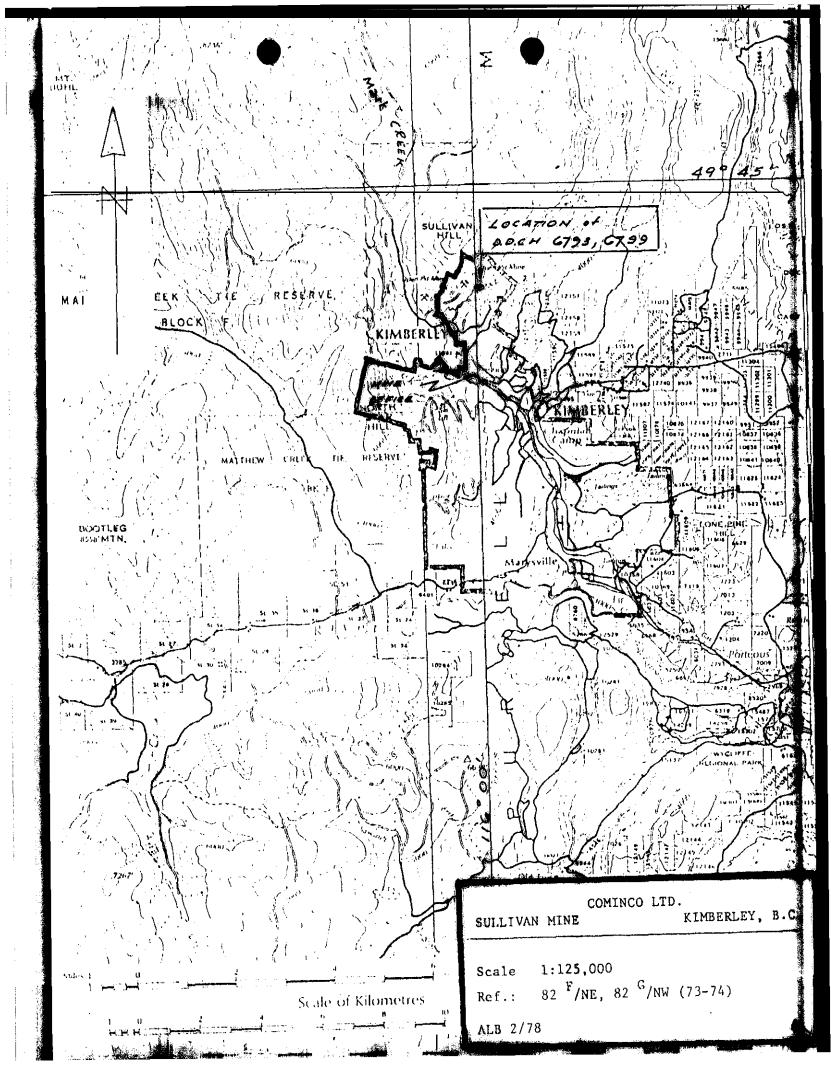
I am a graduate of the University of Calgary with a degree of Master of Science in geology.

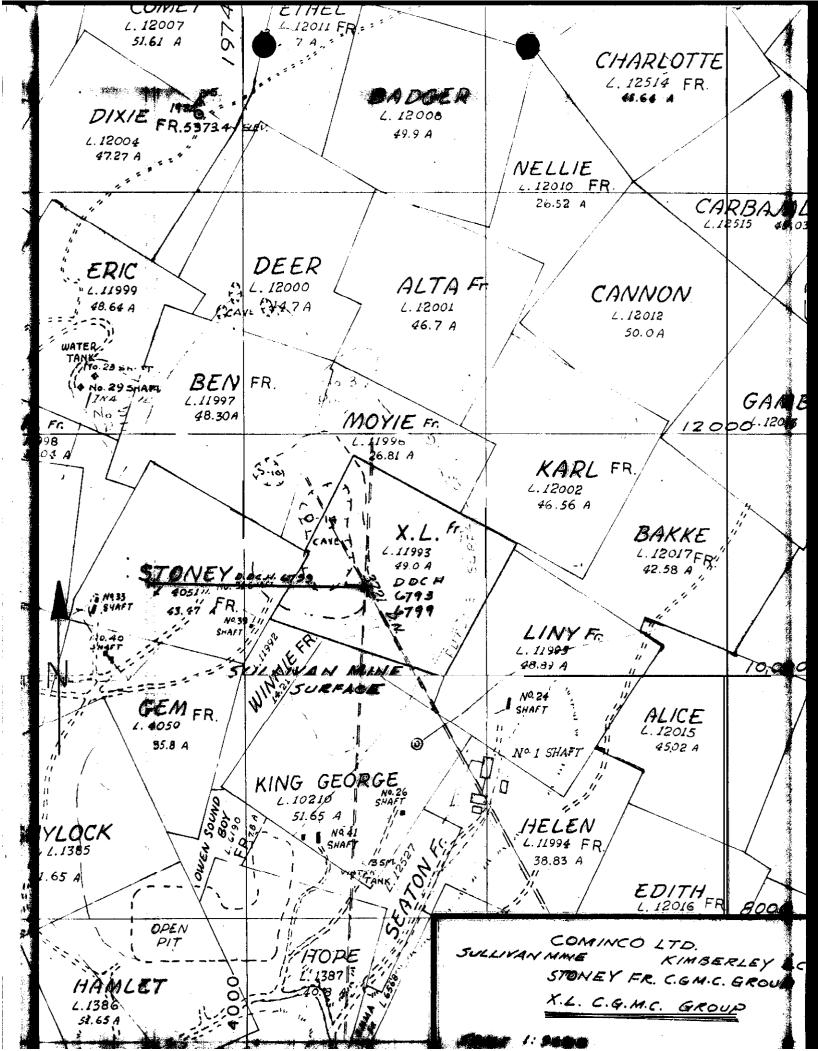
I am a member of the Geological Association of Canada.

I have been continuously engaged in mining and exploration geology for the past five (5) years.

Peter Klevehal

PETER KLEWCHUK Geologist





Diamond Drill Geological Log FOP. D.H. 6799



Trominco

See also sheet referring to top part of hole 0-24564

		•	
LAT. 10747.31 DEP. 5042.93 ELEV. 4002.02	GENERAL CO	MMENTS:	
DIP -68.6 (Collar) AZIM. 271 28' LENGTH 5003'			electric power. HES used a BBS-1
HOR12.COMP. 1100 YERI COMP. 4872.89'	machine and	used diese) comer with a	scrubber scrubbed fumes were ex-
DATE COLLARED: March 23, 1978 DATE COMPLETED: Jan. 27/79	hausted die	estly to a mine exhaust al	rcuit. A separate electric motor
CURE STURAGE: Open PIE Core Lab Racks	nowered a h	ydraulic-driven wire-line	ICUIT. A Separate electric motor
ORILLED ON CLAIM(S): X-L & Stoney		iyorauric orreen wrie-line	WINGN.
UBJECTIVE: Skirt zone of tourmalinite; deep test for sulphide mineralization			
below Sullivan Orebody	Bed string	Lused by H&S was NBO: outs	ide diam. NO. core BD. Roda were
PLANNED LENGTH: 5000	Thick walle	a aluminum with steel coup	lings, Oftype tapered box threads,
LEXMINATION COMMENTS: Hole completed to 5003'. No ore intersected.	Ine lower	<u>300' or so of rods were sto</u>	eel to maintain the rod string in
TENTINE CONTENTS. NOTE COMPTETES (0 900). No bre intersected.	tension dur	ing drilling. A weight in	dicator was used to regulate bit
	pressure.	Rods were each 12' long; a	48' pull was used.
			i
UKILLED BY: Tonto to 2456', Heath & Sherwood 2456' to 5003'.	inter probl	ems & slow productivity by	Heath & Sherwood In sediments are
		to inexperience in drillin	g Aldridge formation rocks and the
IYPE DRILL: Tonto; Longyear 44; H6S: BBS3 See General Comments CORE SIZE(S): 0-2164 HQ; 2164-2456 NQ; 2456-5003 NBQ	HULL CONTRACT	nt. In Sediments, runs wei	e comparatively short with core
PERFORMANCE COMMENTS:	blocking in	the tube.	
See other sheet for Tonto performance.			· · · · · · · · · · · · · · · · · · ·
HES: Performance was steady although slow at times in fractured sediments	. Baroid Bud	<u>was used for the lower half</u>	of the hole, mud products were
coring in gabbro was significantly better than in acdiments. Decreased	mainly quic	k-gel, quick-trol and Esso	Kut-wel 45.
productivity is adjusted in an in the first in section is a section of the sectio		·····	
productivity in sediments is attributed to NBD drilling. Difficulties encountered were dealt with in a responsible, professional manner.		·····	
Cheomitered were deart with in a responsible, protessional magner.			
	·		
CARTING DEMATHING THE INC. P. (1 ENDTH: A CODE)			
CASING REMAINING IN HOLE (LENGTH & SIZE): PW-10' HW-213'			
HWL rods 2171' plus N steel wedge/H core barrel 2171'- to 2191' TYPE OF CAP & METHOD OF SEALING:		LOG	LEGEND
THE OF OF A RETROU OF SEALING:			
OTHER MATERIAL REMAINING IN HOLE: About 255' of N rods left in old hole	BED THI	CKNESS CLASSIFICATION	THOLOGY ABBREVIATIONS
at 2441 date her and a second start at the second start in org note		Very Thick Bedded	
at 2444' depth; wedged around these with N steel wedge at 2181'.			0Q - Orthoquartzite
		Thick Bedded	QA - Quartz Arenite
SURVEY INSTRUMENT USED: Sperry Sun Single Shot		30 cm	QW - Quartz Wacke
ARTEL_INGUENI_GOEDSSPEFTY_3QH_3HQ16_3HQ1	BEDS	Medium Bedded	Au - Angitz Macke
ADDITIONAL DOWN HOLE TESTS: See attached list of surveys (2 pages).		10 cm	QCW - Quartzitic Wacke
inder rest of surveys (2 pages).		Thin Bedded	W - Wacke
		Very Thin Bedded	SW - Sub Wacke
	h	1	AG - Argillite
		Laminated	
	LAHINAE	0.3 cm	(700
		Thinly Laminated	6799

Cominco	

						• •		40 acam		
Objecti	ve:			Sampled:				Color Plot &	Dips	Ore Classes
Logged	By: /	? Kleuchuk Date:	Jan . 1979	Composites:				۲°	\mathbb{H}^{-}	
Block:		Sect.:	Place:		App. Bear:	App.: Dip :	Longih:			
From	To	Discard:	Reason:							
0	2456	Drilled by Tonta Drillin	g Ltđ.							
2456	5003	Drilled by Heath and She	rwood Drilling Lt	d. Drilling 5t	arted October 18,	1978, terminated	January 27, 1979			
2 <u>456</u>	2485.5	<u>1 - 11 cm wide. Subwack</u>	e bed topsare lig occurs through mo	<u>ht grey-green c</u> st of the inter	oloured, bleached		f beds are darker			
		Core angle: 2458'-60°,	2477'-60 ⁰ , 2482'-	67 [°] .						
2485.4	2500	No core retrieved: Misl lowering rods with core					900' in hale) when			
2500	2517	N standard core, drilled Otz, calcite, chlorite a the large amount of lost	nd slickensides.	This may repre-						
		Most of N core is quite	broken Appears	to be med. 5 th	in be dded wacke.	Moderately altered	·····			
2517	2564	NBQ core. Moderately al gray & light brown color					STANDARD			
		siliceous - possibly due				Hole No.	Paga 32			
	I.									2507



An Scale

									1		
Object	ive:				Sampled:	Color Plat & Dip	s Ore Classes				
Logged	J By:		Date:		Composites:				0 ₇₁₁₁		
Block:			Sect.:	Piece:		App. Bear:	App.: Dip.:	Length:	-		
From	To	Discard:	l	Reason:		l			[]][
	<u> </u>	(1 cm) band	at 2551'. Elsewh	ere calcite	is present very in	frequently alo	ong very thin veinle	ts.			
		Some core la	ss experienced:	2535'-2541' 9	5% core loss.						
	ļ	<u> </u>		25411-25431 5	50% core loss.			· · · · · · · · · · · · · · · · · · ·			
		ļ			0% core loss.				[]]		
	ļ	Core angle:	2520'-70°; 2525'	<u>-54°; 2533'-6</u>	50 ⁰ ; 2552'-60 [°] ; 25	63'-60".					
	∔		<u>}</u>								
2564	2647 Thin bedded wecke and sub wacke. Occasional medium thick beds. Bleaching alteration is prominant in the zone;										
	╉┈╼──	much of the									
	╉──	zone is calc									
	+	Po occurs el									
	+	is quite bro	is guite broken. Core angle: 2580'-60°: 2586'-62°: 2602'-65°: 2623'-70°: 2640'-60°;								
2647	648	Core ground.				····					
2097	1040			-					111		
2648	2774	Wacke. Mino	r subwacke, possi	bly minor OCW	or QV. Hedium a	nd thin bedded	. Moderately alter	ed: light bleaching			
							otting is present b		─ -		
	[Calcite is p	resent (eg. at 26	74') as minor	irregular veinle	ts. but only y	ery locally. Core :	angle: 2664'-50°;			
	L	2686'-63°: 2	708'-58°: 2737'-6	0 ⁰ : 2772'-80 ⁰)						
							Core Size				
2 <u>774</u>	2781		ciation. Qtz-cal								
	–		d. Minor ZnS not				Hole No.	Pros			
	<u> </u>	wacke, minor	, minor Quartz wacke. Alteration is present throughout; biotite + Po			r aga					
							6799	33		H87	



40 Scale

Object	ive:			Sampled:				Color Piol & Dips	Ore Classe:
Logge	d By:	Date:		Composites:				•111	
Block:		Sect.;	Place:	J	App. Bear:	App.: Dip.:	Longth:	╡	
From	Πo	Discard	Aeason:	· · · - · - · - · - · - · - · - · - · -				-	
		spotting occurs at 2780.5".	Core here par	allels the trend	of the Qtz vein-br	ecclation may be	entirely due to the		
		presence of the vein.			· • · · · · · · · · · · · · · · · · · ·			1	
2 <u>78</u> 1	2800	Wacke thin and medium bedded.					• -	-	
		porphyroblests is common. Th	<u>e felsic 'spo</u>	<u>ts' may be quartz</u>	<u>& feldspar. Core</u>	angle: 2781'-57	; 2799'-64	-1	
2800	2813	Wacke Thick and medium bedded			· · · –		ion effects are not	<u></u> <u></u>	
		notable due to more homogeneo	us nature of	<u>the rock as a fun</u>	<u>ction of thicker b</u>	eddina.	<u> </u>	-	
		Minor calcite veining (to 5 m	-						
	+	locally present along very mi	nor thin frac	<u>tures. Core angl</u>	e: 2805'-72 ⁰ .		·····	-	
2813	2852	Wacke, minor quartzitic wacke]						
		spotting are common. This al concentrating the feldspar po				<u>të in parts of so</u>	ne beds while		
							······································		
		Minor Po is present locally a		·					
		to 2823'. Very weak ZnS mine	ralization is	present at 2030	as small freguta	r lenses association	d with minor po.		
		Core angle: 2815'-63°: 2830'	-67°: 2847'-6	7 ⁰		Core Size			
2852	2870	Wacke and quartz wacke, thick	and medium	edded. Subwacke	bed tops are narr	NBQ			
		1-2 cm thick. Most of this z				Diole No	Page		
	ł	F				6799	34		11 7107.



			-	-					40 Scale				
Object	ive:				Sampled:				Color Plot & Dr	ips Ore Classes			
1	(D		Date:		Composites:				0-TT				
Logged Block	J DY:		Sect.;	Piece:	Compoance.	App. Bear:	.; Olp.:	Length;	-				
From	0	iscard:		Reason									
		alteratio	n. Color is dark	blue-gray. C	ore angl <u>e: 28</u>	65'-65 [°] .		······································	_ ∥				
		At 2869'	D.D.H. 6799 crosse	s the claim bo	undary from th	e X.L. Claim to th	e Stoney Claim.						
2870	2883	Wacke this											
		blasts (1											
		Much of t											
		1010	'. Core angle: 2				· · ·		⊐ ∥	.			
2883	2951	Wacke_and											
		wackes.	_										
	<u> </u>	is evident by bleached grayish colored zones & general hard nature (silicification ?) of the beds. At 2889'											
						WITH		small zones display					
		evidence	or derormation; sm	all tractures (often have ass	oclated them minor	brecciation.		┥ ║				
		Core angle: 2893'-68°: 2905'-68°: 2917'-67°: 2939'-77°											
2951	2995.	Strongly	altered sediments.	Original lit	hology_probabl	y wacke or quartz w	wacke. The interv	al is mainly thick	<u> </u>				
		and mediu	m bedded. A grayi	sh color predo	<u>minates, a ble</u>	aching effect of a	lteration. Narrow	zones display minor	_}──				
	-	1						t in a few small veins					
_,		6 at 2983	.5' a small narrow	<u>(3 mm) veinle</u>	<u>ts contains py</u>	rite & sphalerite.	Core Size	· - · · · · · · · · · · · · · · · · · ·					
		Core anal	a: 2958 -720, 297	EL-66 ⁰ , 200114	700		NBQ						
					<u>,,,,</u>								
							Hote Ng.799	Page 35					
									[[]				



				40 Scale						
Objecti	ve:				Sampled:	Sampled:				
Logged	By:		Date:		Composites:	Composites:				
Block:	-		Sect.:	Piace:		App. Bear:	App.: Dip.:	Léngth:	┨	
From	То	Discard:		Reason:					┫	
2995.5	3490	Gabbro.	2995-51-30091	Relatively fine g	grained. Sedime	ent -gabbro contact	at 2995.5' is a	t 53 ⁰ to c.a. The		
				contact is guite	sharp with a fo	oliation which may a	represent flow.	Amphibole, feldspar		
	<u> </u>			& quartz are the	main <u>mineralog</u> i	ic_constituents. 300	5'-3007' core is	intensely shattered.	-	
			3009'-3022'	Grain size coarse	ens from fine-me	ed. grained to coars	e grained. Gre	en amphiboles are		
	<u> </u>	·		-			<u>z and feldspar</u> .	a <u>re gravi</u> sh in colour		
				ere is green-gra	ay_in_colour			-		
				· · · · ·			t for local foliation	╡		
	<u> </u>	<u> </u>				Green amphiboles			-1	
		<u> </u>				ituent. Py is prese			-1	
				Calcareous along	some_short.zone	<u>s_near_3149', Core</u>	+ rom 1086 - 309)	2' is broken-shattered	-1	
			3149'-3162.5'	Mixed zone of coa	arse-grained gab	bro (65%) and coars	e grained milky	white calcite and		
	<u> </u>			grey quartz veins	(35%). Vein c	ontacts with gabbro	are irregular.			
			3162.5'-3166	Med. grained biot	ite-rich gabbro	(70%) and coarse-g	rained quartz-ca	alcite veins (30%)		
				Contacts are all	quite irregular	. Med. grained bio	tite-rich gabbro	o here is not calcareous	-	
			31661-32001	Mixed zone of coa	rse-grained vei	ns of calcite-quart	z			
				(50%) and med. to	coarse grained	locally calcareou	is . Hole No.			
- <u></u>	ļ			gabbro. Contacts	are generally	<u>quite irreqular, wi</u>	th	P800		
	1	 .					6799	36		-10F



									40 Scale	
Objec	live:				Sampled:		Color Piot & Dips	Ore Classes I		
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Block:			Sect.:	p	Yece:	App. Bear:	App.: Dip.:	Length:	† ∭	
From	По	Discard:		I F	leason;			╡╶║║		
				minor bre	ecciation of the	gabbro at some conta	cts. Concentrations	of biotite occur	± I∭	
		_		locally i	in the calcite qu	uartz veins			∓ I∭	
	3200'-3243' Med. grained gabbro. Avg.grain size is 1-2 mm. Little variation in the igneous texture						in the igneous texture	╡║		
	is present; grain size is slightly finer closer to 3243'. Small felsic and calcareous									
	veinlets are rare; Pyrrhotite and minor chalcopyrite are present in at 3224' and 3226'.						in quartz-calcite veins			
							·····			
			32431-34651					's across this entire		
	+					zones are finer grain scattered through the		393' one calcite vein		
						'a 9 cm wide calcite				
			··	of the ac	djacent gabbro.					
	1		3465!-3490!			abbro with 2 zones of				
		- <u></u>	······································					with quertz-calcite		
								mainly med. grained,		
<u></u>								sediment contact from		
<u></u>					at 50° to c.a.	er gabbro contact is t	rairty			
_							Hote No.	6		
	-			<u> </u>	u		6799	37		



					•••		40 Scale	
Objecti	ve:		Sampi	ed:	Color Plot & Dips	Ore Classes		
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Block:		Sect.:	Piace:	App. Beer: App.: Dip.: Lengi				
From	То	Discard :	Reason:					
3490	3536.	Altered sediments. Fine-gra	sined, siliceous, the	y appear to have been ma	inly wacke and quart	zitic or quartz wacke	.	
		Bed thickness varies; medlur	n thickness is common	but thick € thin beds a	re also present.			
		A small shear at 45 ⁰ (±20 ⁰ -						
		although numerous fractures						
<u> </u>		bleaching. Core angle: 350						
		this core was re-drilled: lo	- -					
3536.5	3540	Zone of discontinuous, weakl	y calcareous laminat	ions, Vague to fairly di	stinct laminations,	dark brown to gray		
		to white in color comprise t	the entire zone. Ble	aching is present along a	calcite vein at 35	39 ¹ . Laminations		
		occur at 71 ⁰ to c.a. This a	cone compares favoura	bly in character to a cal	careous zone in D.D	.H. 5498 at 897'.	-	
3540	3616	Wacke and possibly quartziti	c and quartz wacke.	Predominantly thick and	med. bedded with a	few thin beds.		
		Alteration masks lithologies	<u>n (</u>					
		has also discolored the rock		<u>llow - green - purple co</u> l	ors. Narrow bed to	<u>ps (usually <1 cm.</u>		
··· ·		<u>thick) are a pale vellowish-</u>	grav color.	•				
		A few narrow zones are weakl	y calcareous & thin	fractures occasionally co	ntain calcite. Som	e biotite spotting		
		is present near 3585'. Hino			Core Size	rval, e.g. at 3599'.		
		Po and chlorite occur in sma						
	_	<u>3544'-72°: 3560'-69°: 3577'-</u>	<u>64 : 3592'-66 : 3605</u>	*-64*				
•			·····		Hole No.	Page		
	_	•	· · · · · · · · · · · · · · · · · · ·		6799	38		7 67-



									40 Scale			
Object	ive:	-	· · · · · · · · · · · · · · · · · · ·		Sampled:				Color Plot & Dip	ore Classe		
Logged	d By:		Date:		Composites:				o .	<u> </u>		
Block:			iect.:	Place:		App. Bear:	App.; Dip.:	Length;]			
From	Tro	Discard:		Reason:					{			
3616	3675	Wacke and pos	sibly quartzit	ic and quartz	wacke. Medium	and thin beds, abo	ut equal numbers.	Alteration has				
]	bleached and	hardened the r	ock. Bed tops	(subwacke to a	rgillite) are comm	only narrow (<1.	5 cm) and light color	ed:			
	┧							d on normal dark blue				
<u></u>								usually whith Po, is				
	+	<u> </u>				Dunts are common o		<u>tures_sub-parallel_to</u> es				
	1		presence tyr	tte of of entor			11	<u> </u>	╼╼┧╺───────────────────────────────────			
		Core angle:	3623'-62 ⁰ ; 363	4'-68 ⁰ : 3650'-	65°: 3674'-65°.	· · · · · · · · · · · · · · · · · · ·						
3675	3686	86 Wacke mostly med. bedded with a few thick and thin beds. Very fine grained and fine grained; alteration has apparently hardened the rock. Bleaching is present throughout the interval; most noteable at subwacke bed tops a										
			• •			resent_locally, us						
		Core angle:	3678'-57 [°] .					· · · · · · · · · · · · · · · · · · ·				
3686	3700			Quite strong	ly pleached. P	vrite & chlorite o	ccur on fracture	surfaces .				
<u> </u>		Core angle:	3697*-52*.		· · · · · · · · · · · · · · · · · · ·	<u></u>		······································	—			
3700	3752	Altered wacke	. Predominant	ly med. bedded	but with numer	ous thin beds and		Grain size is typic	ally	m		
		I	• •			ardened the rock s	uch Core Size					
		1 .				<u>s (cf. quartzitic</u>						
	+			loration is pr	esent throughou	t the interval as	aHole No.	Page		111		
	+	<u>consequence o</u>	<u>f alteration.</u>	· <u>······</u> ······	— <u>—</u>		6799	39				
	I	1					ļ		į III	2301		



									40 Scale	
Object	ive:				Sampled:				Color Plot & Dips	Ore Classes &
Logged	1 8v:		Date:		Composites:				0 	111
Block:			Sect.:	Place:		App. Bear:	App.: Dip.;	Length:		
From	το	Discard:	l	Reason:					-	
		Biotite spo	tting occurs lo	cally, minor Py	& chiorite are	common along fra	actures. At 3741.5	' a 20 cm zone is		
		weakly calc	ereous. This z	one_is_irregula	rly_laminated.				-	
					-		se bleaching is ass 3745': 1.5' core lo	ociated with the qtz		
		vein, core	angle: 5/10 -	70 ; 3731 -70 ;	3750 -04 . Cor	e 1055: 3/43 -	5/45": 1.5" COPE 10	<u></u>		
3752	3763			d thin bedded. Core angle : 3		ps are 1-4 cm th	nick and pale gray	coloured. Minor biotite		
3763	3788	Wacke, Med.	bedded, a few t	thin beds. Ligh	nt gray subwacke	bed tops are fe	w mm to 1 cm thick	Alteration is evident		
			. biotite spot: 3772'-68 ⁰ : 37		light brown colo	ration. Py and	chlorite are evide	nt along fracture surfag		
3788	3877	Wacke with s	ubwacke bed to	ps. Thin and me	d. bedded. Alt	eration is prese	ent; light to moder	ate bleaching throughout		
		biotite spot	ting, commonly	with minor Po,	is quite common	, and Py and chl	orite are present	along numerous fractures	- 1111	
					•			ke. Core is moderately '. 3802'. 3815'. 3834'.	-	-
		3838'-3839'.	Irregular sma	all veinlets of	Po and/or Py and	d_chlorite_are_u	sually associated	with this minor		
			<u>A few narrow</u> 1862'-68 ⁰ ; 3875'		e veins occur ai	t 3859'. Core a	ngle: 3798'-69 ⁰ ; Com Size	<u>3812'-71[°]: 3826'-7</u> 2 [°] :	-	
3877	3931	Wacke, minor	quartz wacke.	Medium bedded.	a few thick and	thin beds. Lig	hter			
					Ition, usually §		ck.	Page		
	I						6799	40		2567-



									40 Scale	
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From	70	Discord:	<u> </u>	Reason:					-	
	<u> </u>	Moderate al	teration is evide	ent; the rock app	ears hardened. Si	licification?. c	hlorite and p	yrite are common		
		_along_small	fractures and bio	otite porphyrobla	sts are developed	locally. Genera	lly alteratio	n appears less		
	<u> </u>	intense than	<u>in previous in</u>	terval.					-1 11	- 1
	┼	38801-38811	1' of "crackle	hressia". Bosk	is not broken up b	ut is laced with		ed fractures. A few	-	
	-				<u>s of similar brecc</u>	and the second				
									[−]	
<u> </u>		A few narrow	<u>fracture</u> surface	ces contain calci	te. <u>Core angle</u> :	<u>3888'-67⁰: 3896'</u>	-73°: 3910'-7	4°: 3924'-75°: 3929'-73°		
		3606'-3609'	only 1' core rea	covered (mislatch	ed core tube).					
 3931	3969	Washa subur	aka E arallita	This f and he	ded a few yers t	his bade Tunic		dark milky gray subwacke	-	
	13703		··· • - ·					on occurs very locally	- III	
								r: locally recrystalli-	- 1	
<u></u>								Core angle: 3937'-72°:		
	┨────	<u>- 3952'-75°; 3</u>	1965'-74°.			··· <u></u> ·				
3969	4022	Wacke and gu	artzitic warke a	and/or guesta vaci	ka Predonianstiu	and badded rea	- this hode	and a few very thin beds	- 11	
		1						distinct. At 3990'		-
		T						adjacent beds (75 ⁰ to		
					porphyroblastic co		- Core Size			
	<u> </u>	with_biotite	and ?_pink_gard	ets. These 'spoi	ts'are 2-8 mm in (diam. and are mos	s t			
	+	<u>from</u>	<u>3995' to 4022'.</u>	Pyrite and/or cl	hlorite is common a	along fracture				
		surfaces. C	ore angle: 3978	۲5[°]: 3990'-75[°]: 3990'-75°)	: 4002'-75 ⁰ : 4020'	-78°	Hole No. 6799	Page 41		
							0/33	41		2507-



_			-						40 Scale	
Object	VB:				Sampled:				Color Piot & Dips	Ore Classes &
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Block:		• • •	Sect.:	Place:		App. Bear:	App.: Dip.:	Lengih:	-	
FIOM	10	Discară:		Reason:						
4022	4037	Altered sec	liments. Wacke wi	th minor qua	rtz wacke and sub	wacke. Beds app	ear to be mainly	thick and medium	┫	
		· · · · · · · · · · · · · · · · · · ·						ite massive, chloritic	-	
	<u> </u>						uding and weakly			
		seds. Veak	laminations, pro	bably a func	tion of alteration	n, are present n	ear 4035'. Core	angle: 72 ⁰ -4034'.	-	
4037	4101	Gabbro; tex 4037'-4044	ture and color va	,		. 9. 1			∭	-
		4037-4044	· · · · · · · · · · · · · · · · · · ·		ine-grained, minor		·		-	
								······	-	
	. نيم -	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Medium grained	I, locally fi	ne grained. Colo	r varies from gr	ay-green to darke	r gray. Feldspar 🗲]	
·	<u> </u>	Secke Ary 4				· • • • •	locally. Minor s			
		1 14			. Minor shearing ng are coarse gra		: at 4092' where h	ornblende crystals	- 11	
			associated wit	n the shear h	ng are coarse gra			-	-	
		4092'-4101'		dark gray-gr	een color. Po is	more common the	n in central zone	; disseminated and		
			fine-grained.							- -
4101	4119						nterval is quite	siliceous. Bedding		
•					ted. Core from 4 .a. Core angle:					
		 1					Hole No. 6799	51 Page 11		
	I	1						۵		id7



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bjectiv	ve:			Sampled:				
ogged	By:		Date:	Composite	18:			°
lock.			Sect.:	Place:	App. Bear:	App.: Dip.:	Langth:	
om	το	Diacard:		Reason:		<u></u>	<u>l</u>	
19	4645	Gabbro con	tact at 4119' is	at 75° to c.a.		· · · · · · · · · · · · · · · · · · ·		
_		4119'-4129'		grained, dark green col	or. Feldspar < 10% by	<u>y volume. Hornblen</u>	de > quartz.	-
		4129'-4188'	Coarse grained	i; green hornblende pre	dominates with abundar	nt white feldspar a	nd gray guartz.	
	<u> </u>		Mica (biotite	or phlogopite) is pres	ent locally, 4 5%.	<u></u>		
	<u> </u>	41881-41901	Foliated 2008.	. 3 biotite-rich bands	are present at 4188'	1-3 cm wide at 80°	to c.a. The blotite	∥
				e separated by narrow b				
	<u> </u>		med, grained,	precominantly of horb	ende and blotite.			
	القور و	4190-14246	Coarse to very	y coarse grained. Horr	blende and feldspar a	re the major minera	1s to 4220', then	
	<u> </u>	Sacker Mag 4	C211	nates to 4226'.				━┥ ╎║ │
	 			<u>Biotite is the predomin</u> 4232 to 4246 is richer				
				texture is disrupted by				
		62661-62681				were trrawing		
		4246'-4248'	White dtz-call	cite vein with minor cl				
		42481-42791		d. Hbide & biotite are		Core Size	occurs in much lesser	<u></u> _
		<u> </u>	<u>amounts. Tex</u>	ture is a fairly unifor	<u>m coarse igneous text</u>	ure		
		4279*-4315*	Medium to coa	rse-grained. Hornblend	de-biotite - Feldspar-	Noie No.	Pace	
	<u> </u>		quartz compos	ition. Zone from 4291	to 4295 is coarse gra	ined 6799	43	



							• •		40 Scale	
Objecti	ve:				Sampled:				Color Plot & Dips	Ore Classes & Al
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•										
From	To	Discard:		Reason:		- -			-	
			with highline th	e oredonicao	mafic Small	irregular quartz vei			╡	
			wide).				ns are present t	ear 4231 110 3 cm	=	
									╡ (
	-	43151	4" vein of mass	ive oray qua						
			•			<u></u>				
		4315'-4356'	Medium grained.	locally coa	rse-grained. Da	rk green color. Fel-	dsoar content is	low 10-152. A		
			fau thi n calcit	e veins are	present near 411				1	
]	
	· •	43561-43821	Similar med. gr	ained, dark	green gabbro wit	<u>h low feldspar conte</u>	nt but with nume	rous, commonly		
	Į		irregular qtz.	- feldspar v	eins.					
	فد -									
	<u> </u>	43821-44251	Hed. grained. d	ark grav-gre	en color. Simili	ar to 4315'-4356' in	terval. Locally	minor enrichment		
	<u> </u>		of feldspar is	present but	commonly feldspa	r is ≤10% of the gal	bbro. A few cal	cite veins occur.		
	┣──-	_	· · · · · · · · · · · · · · · · · · ·				····			
		44251-44661				what coarser-grained			_	
<u> </u>				ept for smal	<u>l irregular vein</u>	s of quartz and feld	spar. Narrow sh	ears; 4441'-60°;		
	ł	1	and 4456'-50°.		·····					
		4466 - 4567 -				Homogeneous, igned	Com Class			
			-			carcous zone. Gabbro	-			
		1				resent. narrow shear				
						st 4508 ¹ at 50 ⁰ to	Hole No.	Page		
							6799	4 4		
	•						1		1 1040	19 2907-



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Object	ive:				Sampled:	· · · · ·	-		olor Plot & Dips	Ore Classes & A
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Block_			Secl.;	Place:	l	App. Bear:	Арр., Dip.:	Langth:		
From	lite .	(Discard:		Reason:						
			ç.a. with min	or Po and Cpy	(,					
			4562' 1 cm wi	de Qtz vein a	st 90° to c.a., m	argins are folia	ted.			
			4563'5 mm wi	de shear zone	: at 70 ⁰ to c.a.				-	
		4567'-4568	Quartz vein,	brecciated, p	pale green color,	with included i	rregular patches o	f med. grained biotite.		
		4568*-4576	Med. grained,	granular gat	bro. Green-brow	n in color. Con	tains est. 25% bio	tite.	-	
		4576'-4645	Med. grained	to fine grain	ned. Predominant	ly fine grained	below 4633'. Colo	r is generally		
	<u>t.,</u>		gray-green wi	ith minor loca	al variations. 4	634-4645' is bro	wn-gray color resu	Iting from abundant		
	- .		"biotite.							
		Sector Program	192 A		··· · · · · · · · · · · · · · · · · ·			8' and 4579'. Narrow		
	1		calcite,and/c				is moderately brok	en from 4602'		
			to 4632" but	is good from	4632 to 4645 (co	ntact with sedim	ents).			
4645	+655	Altered see	liments							
			Silicified an	d bleached, p	ale gray to dark	green brown col	or. Bleaching is m	ost intense along		
							lithology masked b			111
	+						greenish, chlorit	ic and appears to		
	<u> </u>		be chloritic	wacke but may	<u>, he gabbroic. C</u>	ore angle:4649'-	250			
		<u> </u>					Hole No.	Page		
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		-					1		1 110	2967



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From	To	Giscard:	<u></u>	Resson:		\$	<u> </u>	i		
4655	4742	Is guite in Jight brown Present. Mg with gray a locally. co		te recogni; of beds arg oped_along lloration. es lo beds	zed). <u>Bed tops (</u> <u>a typica] medium</u> <u>narrow closed fr</u> Small porphyrobl parallel to bedd	subwacke) are common to dark blue-gray co actures. 4704 to 4 asts of biotite (som ing planes: Po also	nly narrow (1- blor. Moderat 707' is guite metimes with P b occurs in ve	3 cm. wide) and e bleaching is intensely bleached o) are present ry minor amounts		_
742	4748	6' core gro	4662' - 80 ⁰ ; 4675 		· · · · · · · · · · · · · · · · · · ·					
	4799	interval, b 2-3 cm. thi	gerizitic wacke. Me out generally less in ck. Minor Po and Py 4746'-84 ⁰ : 4762-	tense than occur alon	4655'-4742' inte ig thin veinlets;	rval. Bed tops are A small bleb of CF	subwacke to w	acke in composition, —		
.799	4839	Color_is_me	n Quartzitic wacke an nd. bluisb gray and on 48041-84 ⁰ : 4817-1	nly very mi	nor alteration in					
<u>-</u>	 						Hole No. 4799	Page 46		itet-



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4839	4886.5	Wacke, mind	r subwacke and g	uartzitic wac	ke. Thin and m	med, bedded. Sub	wacke to argillite b	ed toos are light	-	
								e. Silicification is	- 111	
			r 4839-4840'. s						-	
	÷	Core angle	: 4845'-75 ⁰ ; 4	<u>860-76⁰; 48</u>	85'-50 [°] .					
	-									
<u>4886.5</u>	4890	N Standard	core (Cored stan	dard to recove	er jaw of foot	clamp dropped do	wn hole) <u>2' core re</u>	covered, Wacke		
	<u> </u>	and quartz	itic wacke. Med.	bedded. Por	tions of this i	<u>nterval are very</u>	hard, fine grained,	quartzitic and are		- III -
		probably g	artz arenite.		· · · · · · · · · · · · · · · · · · ·					
				······					{	
4890	4936	1	* *				tly med, bedded with		-1 111	
				-	•	-	of the interval: pa			
								ably a congretionary		· ·
			- L			—	<u>t. At 4909' small pi</u>	•		
			hrough the core			en. un de presen		Intrant gorinexy are		
			4905'-73°: 4		31'-72 ⁰					
									INI	
4936	4940	0n1y_3" co	e recovered Quar	tz arenite or	silicified_was	ke.	·····			
	<u> </u>									
4940	4943	Appears to	be a single quar	tzitic wacke	<u>bed. Bed top i</u>	s rot present:	Core Size			
		Core ground	l							
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		···· · · · · · · · · · · · · · · · · ·					6799	47		
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4943	4961	Quartzitic wacke. Medium	and thick bedde	d. Color i <u>s d</u>	ull brown-gray,m	nay be caused by alt	eration. A number		
		of short zones are calcar	eous: a few of	the calcareous	zones are lamin	ated. Generally th	e calcareous zones		
	.	(2 cm - 10 cm wide) are)	ight gray in col	07					
<u> </u>	-	Core Angle: 4955'-77 ⁰							
4961	4990	Wacke, minor subwacke and	quartzitic wack	e or silicified	dwarke. Media	nd thin bedded with	a few very thin		
		beds. Harrow (2 - 3 cm.)							- -
<u></u>		Calcite occurs also along	fracture surface	es and as tiny	veinlets. Loca	illy coarse grained	Py occurs with	— I III	
<u> </u>	+	calcite in fractures. Core Angle: 4968'-76 ⁰ :	4987-78 ⁰		· · · · · · · ·				
4990	4992.	Single Quartz wacke or qu	artzitic wacke b	ed		· · · · · · · · · · · · · · · · · · ·			
4992	5003	Wacke Med, bedded with nu	merous calcareou	s zones. The (calcareous zones	comprise about 25%	of the Interval.		
		Cross bedding is present				••••			
	ļ	Core Angle: 4998' - 78°			· · · ·		·		
	╂				Klenchak				
				0	, see				
					·····	Core Size			
<u> </u>	<u> </u>		· -		······································				
	÷		· · ·			Hole No.	Page		
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<u> </u>		······································							
	D.D.H.	6799 Sperry S	un Single Sha	ot Surveys, 2456	' - 5003' (Drilled	by Heath & Shern	wood)		
				· · · · · · · · · · · · · · · · · · ·			·····		
	Depth		Azimuth	Dip					
	25351		272.50	-78.4 ⁰	90° compass	unit			
	2697'	·	_261 ⁰	- 78. 3 ⁰	20° compass	unit			
	26881	· · · · · · · · · · · · · · · · · · ·	267 ⁰	-78.40	20° compass	unit			-
	3081	· · · · · · · · · · · · · · · · · · ·	2670	<u></u>	20° compass	unit			
	3256'		267 ⁰	- <u>78.9</u> °	20° compass	unit			
<u>+</u>	3400'		264 ⁰	<u>-79.4</u> ° -78.3°	20 ⁰ compass 20 ⁰ compass	unit			
<u> </u>	<u> </u>		263 ⁰	-78.3 -77.6°	20 compass 20 compass	unit			
	4608'		259 ^{°°}	-77.1°	20° compass	unit	····		
	4999'	•	275 [°]	-80.6°	20° compass	unit			
							· · · · · · · · · · · · · · · · · · ·		
				· · · · · · · · · · · · · · · · · · ·		Core Size			
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			LIST OF SURVE	YS. SPERRY SUN SINGLE SHO	[
	DEPTH	AZIMUTH	<u>D(P</u>	<u>DEPTN</u>	AZINUTH		[]]]]	
	COLLAR	271 28'.	-68.60	1999	271°			- III)
	90'	280° (7)	<u>-69.5°</u>	2100*	270°	<u>-81.0°</u>		
	212'	273 ²	-71.3°	2220'	2760	-81.40	1111	
	332'	272.5°	-72.5°	2323'	2820	<u>-82.5°</u>		
	<u></u>		-72.40	22731	2710	-82,6°	—————— IIII	
	<u> </u>	272	-72.3°				— (
+	700'	270	<u>-72.8°</u>		<u> </u>	·····		
	802 '	2690	<u>-73.5</u> °			E ON H ROD STRING:		
		<u>766</u>	<u>-74.5⁰</u>		HULE BELUW N WEDG	-79.5 ⁰		
	9461	<u></u>	-74.80			79.3°		
_+	995	<u>263,5°</u>	-75.6°					
 	1060 ·	265 264 ^{CD}	-76.2°	.2326*		-79.6°		
-+-	11201	264.5°	-76.3°	24241		- 780		
	1265'	264		2454	272°	-78.40		
-+-	1387'	259.5	-77.0°					·
	1502 1	<u>251-2</u> 265.5 ⁰	-76.8°					
-+	1603.	266 [°]	-78.3°		Core Size			
	1702'	261 ^C	-79.3°					
	1805'	265.50	-79.7°		M_	6		
	1891'	272	0h ^o		Hole No.	99 REDRILL		. 111

COMINCO LTD.

SULLIVAN MINE

KIMBERLEY, B. C.

foot

-AR.71

COST SUMMARY ODCH 6799

NOTE:

This underground deep core hole was stopped in July 1978 at a depth of 2,456 feet. A Statement of Exploration Costs to that date was submitted and approved September 25, 1978 on Notice to Group No. 2031. Drilling resumed in October 1978 and was completed in January 1979. Expenditures far this period are as follows:

FOOTAGE

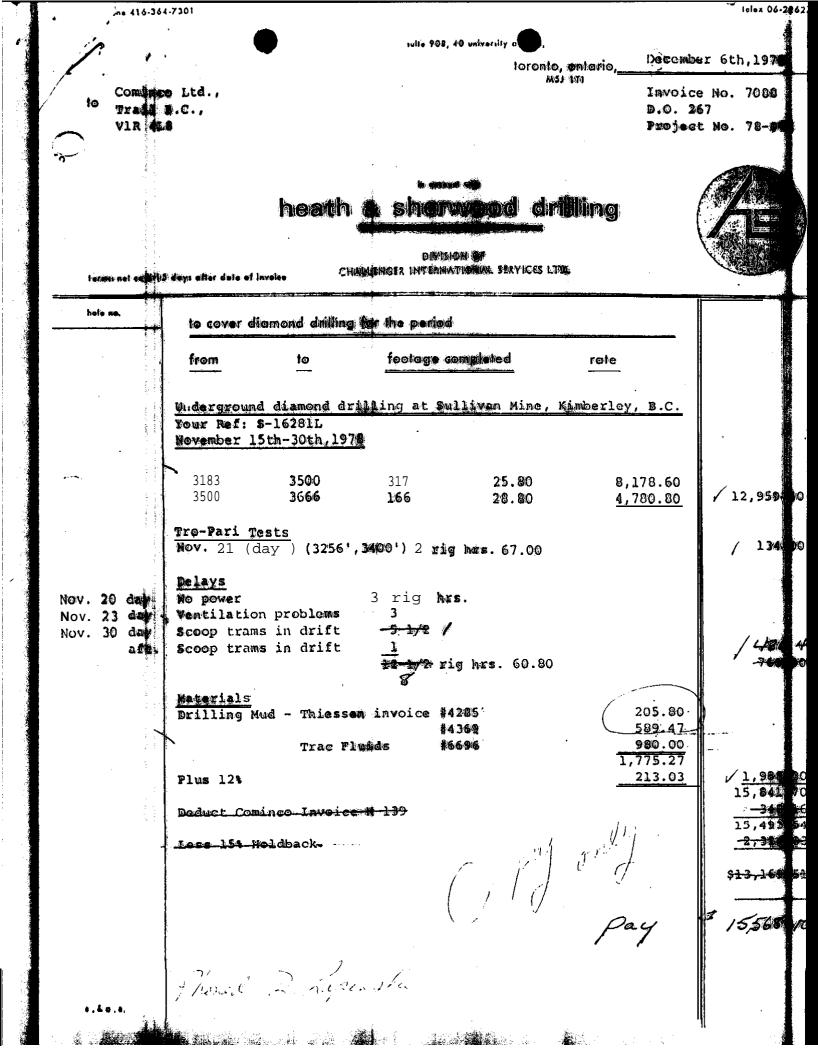
I OU I MAR		Dollars	
2456 - 2645 2465 - 3785 3183 - 364 3666 - 411 4114 - 4612 4612 - 501%	Invoice 7037 Invoice 7088 Invoice 7095 Invoice 7140 Invoice 7147	\$ 4,317 12,993 12,959 13,256 16,189 13,529	
			\$ 73, 243
MOBILIZATION/DEMOB	Invoi ce 7037 7174		21, 585
HOURLY CHARGES			
Invoice 7007 Invoice 7005 Invoice 7005 Invoice 7005 Invoice 7147		301 2, 720 620 261 346	
			4,248
MATERIALS			
Invoice 7000 Invoice 7140		1, 968 1, 856	
CORE BOXES 100 Cominco Géniogical Sup Cominco clarges for En preparation, and maint	gineering expertise	, site	3, 844 430 7, 000 16, 642
TOTAL COST COST/FOOT			126, 992 49. 86
This hole crossed the 2869 foot mark. Expen basis.	X.L. Fr. (L <u>11993</u>)/ nditures have been a	Stoney Fr. (L 4051) cla apportioned to each grou	aim boundary at the up on a cost per foo
	to 2869' = 413 to 5003' = 2,134	'@\$49.86 = '@\$49.86 =	$\frac{\$ 20, 592}{\$106, 400} - A$

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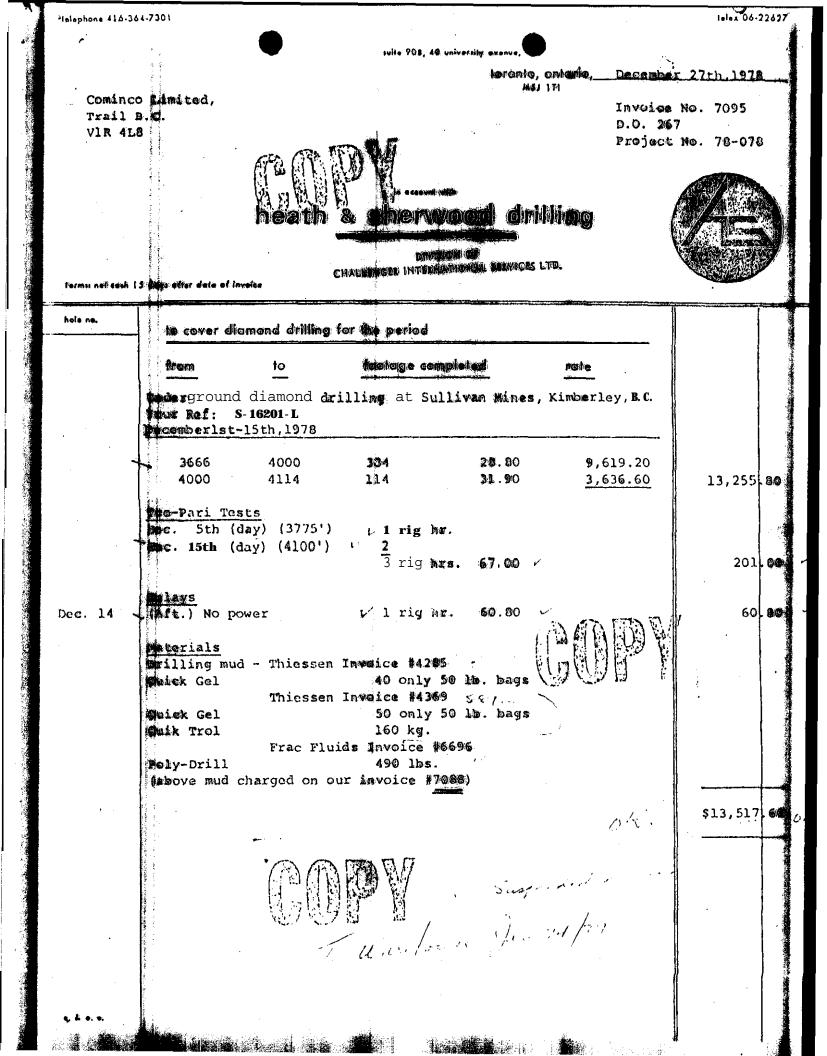
10 Trail	sh Columbia,		ťc	1	November 7th.1 Invoice No. 70 D.O. 267 Project No. 70
			In account with & Sherwood Division of CHALLENIGER INTERNATIONAL	Area	
bete ne.	s days alter dete et it to cover di		for the period $C_e f$	15 - 31	
	from Underground Your rof: S-		foolinge completed	rate ne, Kimberley, 1	B.C.
			'lump swm (\$14,800.00 grill site.))	<i>ر</i> ۲,
	Oct. 1 Oct. 1 Oct. 1 Oct. 1	5th 7th	32 man hrs. 32 - 40 - 15 -		
	Drilling 2456 2500	2500 2645	119 man hrs. 44 145	25.80 21.35 23.30	× 3, × , × 3,
		7 (Night) B 8 (Day) B			V
	•	8 (Day)	l rig hr.	/ 67.00	· /
	JExtra Trave Oct. 26	<u> Time</u> (Day) Scoo j dri:	p tram blocking ft 2 man hrs	, 🖌 25.80	L _
		Copy	back to punche		\$15,

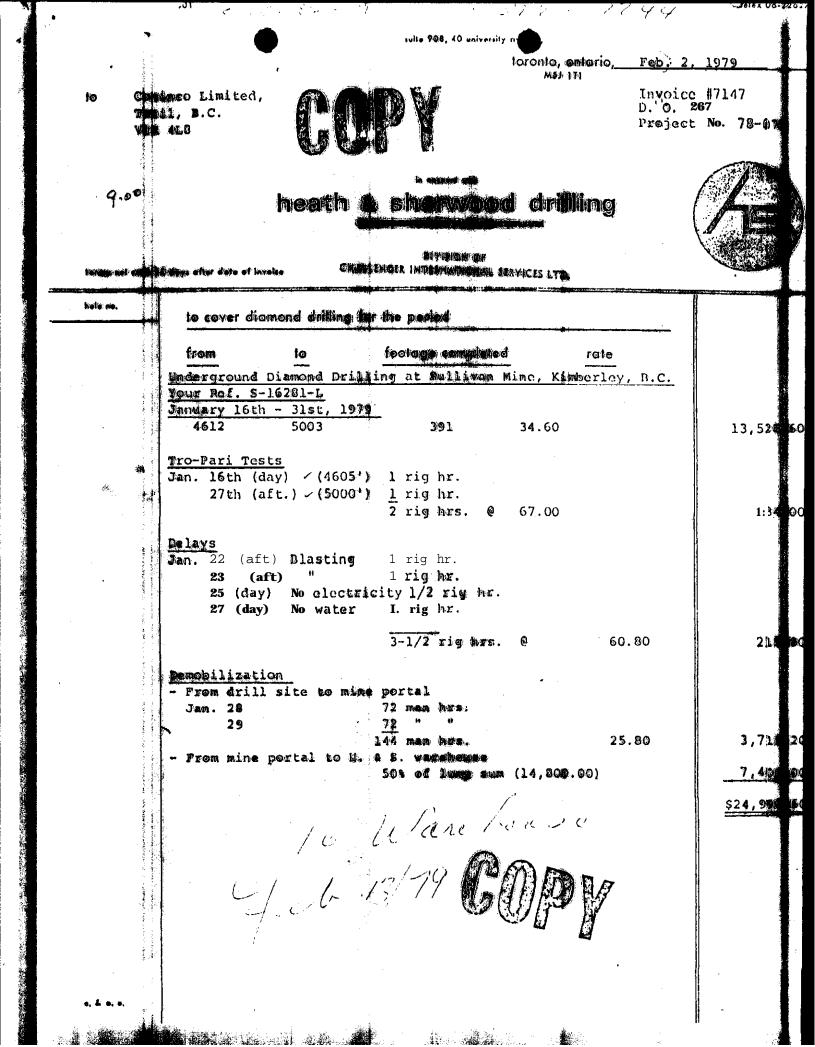
	nco Limited, 1, B.C.	COPY	D.0	November 21, Invoice #7065 D.O. 267 Project No. 7	
		heath & shorwood d	riWing		
lerns: net cesti	19 days after data of i	DIMISION OF CHANUSNIGER INTERNATIONAL SERVIC	is line.		
hole na.	to cover di	mond drilling for the period A oc	1 - 15		
	from	to footage complicited	rate		
· : :		nd diamond drilling at Sullivan Mir. S-16281L	ne, Kimberley, B.C.		
· · · · · · · · · · · · · · · · · · ·	2'645 3000		8,271.50 4,721.40	× 12,99	
3 - - - - - - - - - - - - - - - - - - -	Nov. 8 (d Nov.13 (d	ay) (3060') - <u>1</u> rig		1 26	
	Delays Nov. 3-	(grave) Ne power	- ? out		
: 	8	(day) Blatting L " "	<u></u>	·	
:	8	(aft.) No ventilation 3 " " (grave) " " 2-1/2 rig	y hørs.		
	10	(day) Blasting 1 rig hr: (grave shoeve wheel	•		
		broakdown 1 " "	L		
	14	(day) (aft.) " " " "	 A		
÷	15	(grave) " " & " " (day) " " & " "	~ ~	24	
· .	Å	-50 1/2 rig 401/2	hrs. @ 60.80	V 3 ,0 ;	
н н н н	Material			H	
				\$16,3	
	Nov 34	4 10 Rig pourse to being	in M	6	
	·]	* 607.00		15,74	
		(*(<i>14</i>)			

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<u>ه</u>	Purchasing (Maureen Lessier) Date Dec. 21, 1978
rom	Geol Technician (JWC) File No.
Subject	INVOLUE ADJUSTMENTS Reference
	The millowing adjustments should be made to the attached invoice and then it
	is only for payment. These have been discussed with D. Lapinskie, Branch
	Superintendent in Calgary.
	1. Delays: Nov. 30 Scooptram in drift reads 5-1/2 rig hrs
	Should read 1 rig. Nowr.
	2. Jumpve "Deduct Cominco Involge K139 \$348.16".
	3. Remove "Less 15% Holdback \$2 \$24.03".
	Pay \$15,568.10.
	JWEartwright:bk Sulliivan Mine Dec. 21, 1978 cc: File
,	
	L. vou 7055
	Low 15- 30
	Nov 15-30 Te Trank Diec 21/78





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