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# COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

# DIAMOND DRILLING

Telfer and Burgess Groups

Fort Steele Mining Division

Mark Creek Area

N.T.S. 82F/9

- Assessment Report -

LATITUDE: 49º 44.5' N

LONGITUDE: 116º 03' W

SUB-RECORDER RECEIVED

JAN 18 1989

OWNER

Cominco Ltd.

Box 2000 Kimberley, B.C. V1A 2G3

Work performed during August to October,

Report by:

P.W. Ransom Project Geologist



ASSESSMENT REPORT

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#### COMINCO LTD.

EXPLORATION NTS 82F/9

WESTERN DISTRICT

## DIAMOND DRILLING REPORT

#### ASSESSMENT REPORT

#### TELFER AND BURGESS GROUPS

Fort Steele Mining Division

January, 1989

P.W. Ranson

## 1.00 INTRODUCTION

# 1.10 Specific Location

DDH 6464, the hole being reported on, was drilled 4 kilometers northwest of Sullivan Mine. Access to the drill site is by exploration access roads.

## 1.20 Property Description

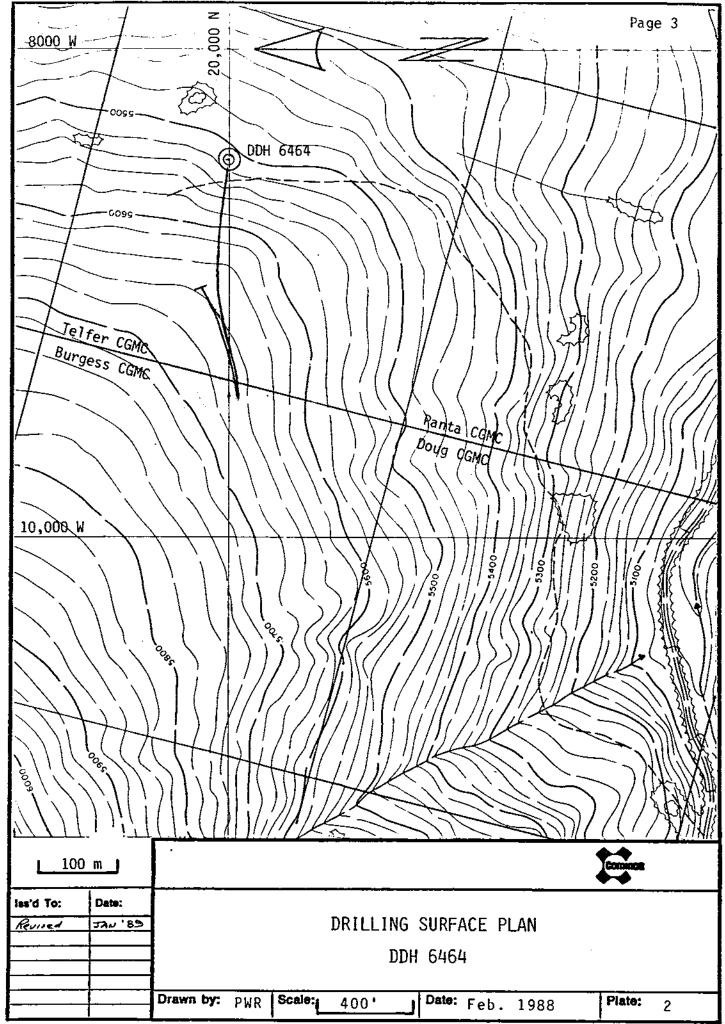
The property being investigated forms part of the Sullivan Mine claim group, owned by Cominco Ltd. Cominco has operated the mine for about 75 years. The Sullivan stratiform Ag-Pb-Zn-Fe sulphide deposit is one of the most important of its type worldwide and has contributed significantly to the mineral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

## 1.30 Drilling

The drilling of one hole below 1738 meters is being reported on. It was collared at  $-68^{\circ}$  dip and was drilled to a depth of 2,649 meters using H and N wireline tools.

# 1.40 Claima Explored

DDH 6464 was drilled on the Telfer and Burgess Crown Granted Mineral Claims.



## 2.00 DETAILED TECHNICAL DATA AND INTERPRETATION

# 2.10 Drilling

## 2.11 Objective

The Objective of drilling DDH 6464 was to locate the offset continuation of the Sullivan orebody north of the Kimberley Fault.

#### 2.12 Results

DDH 6464 was drilled to a depth of 8688 feet (2649 m). Rocks cored are siliciclastic and argillaceous sediments, gabbro and "granophyre". A detailed lithologic description is given in the log, Appendix A. The interval from 8139.8 to 8534.5 feet (2481.6 - 2602.0 m) has a true stratigraphic thickness of 105.3 m and contains unique sedimentation units, in particular very thick graded beds, thick dissaggregated argillaceous units, laminites and at 2592.7 m 30 cm of deformed bedded sulphides.

## 2.13 Interpretation

The sedimentary rocks cored to a depth of 2481.6 m belong to the Middle Aldridge Fm. and below that to the Lower Aldridge Formation. The gabbros are typical of Moyie intrusions commonly found within the Aldridge. The "granophyre" is equated with similar rock associated with the footwall gabbro intrusions at Sullivan. The unique sediments in the 105.3 m stratigraphic interval are interpreted to comprise turbidites thickened by virtue of deposition in a local sub-basin, slumps, rapidly deposited sediment associated with sub-basin formation including re-sedimentation of unstable accumlations and exhalitive sulphides. This distinctive package of sediments is correlated with the stratigraphic sequence enclosing ore at Sullivan and the 30 cm of bedded sulphides are the fringe of the offset portion of the Sullivan deposit north of the Kimberley Fault.

#### 2.14 Conclusion

DDH 6464 penetrated portions of the Middle and Lower Aldridge Formations, the faulted continuation of the Sullivan ore hosting stratigraphic sequence and intrusive rocks similar to that at Sullivan. Most significant is the 30 cm of deformed bedded pyrrhotite and sphalerite proving the presence of Sullivan type sulphides north of the Kimberley Fault.

Report by:

P.W. RANSOM
Project Geologist
Cominco Ltd.

Endorsed by:

J.M. HAMILTON
Manager, Exploration
Western Canada
Cominco Ltd.

Copies:

Mining Recorder (2 copies)

Western District Kootenay Exploration APPENDIX A

Diamond Drill Geological Log For D.D.H.	6464				<b>5</b>	Page 1		
LAT. 20,000'N DER 8,450'W ELEV. 5,500 feet								
DIP: -68.50 AZIM.: 2700 LENGTH: 8,688 feet	GENERAL CO	MMENTS:	Crew and fil	rst load a	rrived Oct.	28, riq	arrived	·
HORIZ, COMP. VERT, COMP.	Oct. 31.	Field Su	pervisor Joh	Cantin,	Drilling Fo	ernan Johi	n Corsi,	
DATE COLLARED: Nov. 3, 1987 DATE COMPLETED: Feb. 2, 1988	Driller	Richard Dr	uske, helper	s D. Gofar	th, Bill G	Troy, Rol	Brown,	
CORE STORAGE: Sullivan Mine Deepened: Aug 6 to Oct. 9, 1988	cook C.	Coomes.	lesidence at	Kimbrook C	rescent.			
DRILLED ON CLAIMIS) Telfer and Burgess			SPERRY	SUN SURVE	Y5 _			Angle
OBJECTIVE: To explore for the continuation of the Sullivan orebody	Depth	Dip	Azm An	ole Unit _	Depth	Dip.		Jnit
north of the Kimberley Fault.	0,	-68.0		900	3901	-84.3		200
PLANNED LENGTH: 6,500 feet	88'	-67.5	273	н	4111'	-84.1	not used	60
TERMINATION COMMENTS: Rig not capable of lowering NO rods safely	198	-70.5	279	-	4311	-85.4	251	
below 6 700 foot Considering replacing rig	7511	-70.5	278	•	4521'	-86.0	243	
Larger drill installed, started deepening hole Aug. 9, 1988 and	1001	-74.25		4	47191	-86.2	261	
completed to 8,688 on Oct. 9, 1988.	1191'	-74.1	273	20 <sup>0</sup>	4898'	-86.6	255	•
Completed to 3,000 on det. 3, 1300.	1391	-75.0	268.5		5099'	-87.3	255	<b>.</b>
	1611	-77.0	262.5		5310	-87.3	252	-
TYPE DRILL: 56HD (Boyles) to 5701'; Connors modified Longyear 55 with 40' pull	1801	-77.5	261.5	-	5500	-88.1	254	¥
	2011'	-78.1	261		58481	-87.7	271	<b>H</b>
CONE SIZE	<del>232</del> 1	-79.1	264		6211**	-88.0	023	*
PERFORMANCE COMMENTS:	2521	-80.4	262	<b>T</b>	65861	-84.15	0735	•
BOYLES 56HDperformed well but was not used much beyond rated capacity.	2701		264		6996	off sca	le 0977	М
		-RD-4		<del></del>	7115'	-80.0	077	200
LONGYEAR SS performed very well. Except for the bottom 100', up to 7170 feet	3121	-80.5 -81.5	263 260	<u>.</u>	7295	-78.3	079	#
of NCO rods were used in the string, above which stronger 6 m	3311	-82.2	262	<del>-</del>	7483	-76.8	079	
long 76 mm rods were used. This combination with the smaller 76 mm core tube resulted in substantially reduced time	3521'	-83.0	262	-¥	7677	-75.7	076	_
/6 mm core tube resulted in substantially reduced time	3/01	-84.0	260	·	7882	-75.1	073.5	_
necessary to cycle the tube below 5700 feet.					8165	-74.5	068	
	-1				8486	-73.4	061	•
CASING REMAINING IN HOLE (LENGTH & SIZE): 42 HW	4				8675'	-73.9	661.5	•
	- BE	D THICKNE	SS CLASSIFICA	HION		Que PLE		
TYPE CAP B SEALING METHOD: 2' HH welded Cap.	- <del></del>			<del></del>	ր * Depths և		t .	
	4	1	Very Thick		were rec	رزز/-alc	<b>√</b> 5	
OTHER MATERIAL REMAINING IN HOLE! None	4 !		100 c		ulated 1		$^{\wedge}$	
Drillers on completing hale 5701 - 8688': J. Corsi and R. Druske,	-1 i		Thick Be		true.	15/3	\.	
helpers - R. Brown and J. Rankin. Second drillers added to each	┫ !		30 c		1	/V# .	. Χ.	
shift for about last 10 days - M. Rousselle and R. Thelland.	_{	)\$	Medium B		1 /	/ 7 🚜		årgi i i i i i
SURVEY INSTRUMENT USED: Sperry Sun. See results to right.	-1		10_c	_	1 /		ドヨン	
	-1 i	}	Thin 3e		falsaper 4			~1u
ADDITIONAL DOWN HOLE TESTS! Temperature	4 1	-	3 ca		₹.		_	
Depth Time thermometer on bottom Temperature	<b>-1</b>	I	Very Thin		1 417	MOFREIC CTY?	SIF ICAT   48	
5.578 feet 2 hours 115.5° F			J. CA		┥			
5,701 feet 3 hours 118.50 F	- III - II - II - II - II - II - II -		Lamina				•	
7,490 feet 2 hours 147.00 F	LAHII	4AE	ه 0.3 د		וממ ד	Н. 641	6 4	
8,170 feet 2 hours 158.00 F	-1 \		Thinly Lam	Inated		0 4 1	<del>-</del>	



Diamond Drill Geological Log For D.D.H	6464			(Romenda	Page 1		
LAT. 20,000'N DEP. 8,450'N ELEV. 5,500 feet							
DIP: -68.50 AZIM.: 2700 LENGTH: 8,688 feet	GENERAL CO	MMENTS:	Crew and first 1	oad arrived Oct	28, riq	arrived	
HORIZ, COMP. VERT, COMP.			pervisor John Can				
DATE COLLARED: Nov. 3, 1987 DATE COMPLETED: Feb. 2, 1988			uske, helpers D.		illroy, Ro	b Brown,	
CORE STORAGE: Sullivan Mine Deepened: Aug 6 to Oct. 9, 1988	€ook €. (	comes. R	esidence at Kimbr				
DRILLED ON CLAIMISM Telfer and Burgess			SPERRY SUN				Angle
OB VE To explore for the continuation of the Sullivan orebody	Depth 0	-68.0	Azm Angle U 270 900	nit Depth	Dlp		Unit
north of the Kimberley Fault.	88'	-67.5	273 *	3901' 4111'	-84.3 -84.1		200
PLANNED LENGTH, 6.500 feet	498'	-70.5	2/9	4311	-85.4	not used 251	
TERMINATION COMMENTS: Rig not capable of lowering NO rods safely	751'	<del></del>		4521	-86.0	243	
below 5,700 feet. Considering replacing rig.  Larger drill installed, started deepening hole Aug. 9, 1988 and	1001	-70 <u>5</u> -74_25	27B	4719	-86.2	261	
completed to 8.688' on Oct. 9, 1988.	1191	-74.1	273 200	48981	-86.6	255	
tompresed to 0,000 on occ. 5, 1300.	1391'	-75.0	268.5	5099	-87.3	755	-
PULL CO. DM	1611	-77.0	262.5	5310*	-87.3	252	
DRILLEO BY: Connors Orilling Ltd.  TYPE DRILL: 56HD (Boyles) to 5701'; Connors modified Longyear 55 with 40' pull	1801'	-77.5	261.5	5500 *	-88.1	254	-
CORE SIZE: HQ. NQ and Boyles chuck and 76 mm rod string + C.B.	2011	-78.1	261	58481	-87.7	271	
PERFORMANCE COMMENTS:	2321	-79.1	264	6211,4	-68.0	023	
BOYLES 5680 performed well but was not used much beyond rated capacity.	2521'	-80.4	262	65861	-84.75	0735	
SOLE 3 2000 DELLOUGEN MELL DOT MAX HOT DESCRIPTION LATER CAPACITY.	2701'	-80.4	264	69961	off sc	ale 097?	-
LONGYEAR 55 performed very well. Except for the bottom 100', up to 7170 feet	2911'	-80.5	263 *	7115'	-80.0	077	200
of NCO rods were used in the string, above which stronger 6 m	3151.	-81.5	260 "	72951	-78.3	079	-
long 76 mm rods were used. This combination with the smaller	3311	-82.2	262	7483	-76.8	079	
76 mm core tube resulted in substantially reduced time	3521	-83.0	262	7677'	-75.7	076	
necessary to cycle the tube below 5700 feet.	3701'	-84.0	260	7882	-75.1	073.5	
•				B165'	-74.5	068	
CASING REMAINING IN HOLE (LENGTH & SIZE) 42 HV	1			8486 1	-73.4	061	•
		TUICVUES	S CLASSIFICATION	86751	~73.9	061.5	•
TYPE CAP B SEALING METHOD: 2' HW welded cap.	<u> PEU</u>	INTURNES	2 CENSSIFICATION	+ Conthe	below A		
		i	Very Thick Bedd	ed were re	calca S	£	
OTHER MATERIAL REMAINING IN HOLE! None	1		—— 100 ca —	ulated	to /3/3	λ	
Drillers on completing hole 5701 - 8688': J. Corsi and R. Druske,	1	ŀ	Thick Sedded	true.	~ / <u>2</u> /4/		
helpers - R. Brown and J. Rankin. Second drillers added to each	1	· }—	—— )0 cm —		calc-/*/ to / s/s/s/	/>	
shift for about last 10 days - M. Rousselle and R. Thelland.	BED!	<b>i</b>	Hedlum Bedded		/ V 🗗 🗗		draibber.
SURVEY INSTRUMENT USED: Sperry Sun. See results to right.	4	<u> </u>	10 cm		/ / *	##\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	williant
	4	ŀ	Thin Bedded	Felesjur Z		<u> </u>	<b>FL</b> q
ADDITIONAL DOWN HOLE TESTS: Temperature	4 1	<u> </u>					
Depth Time thermometer on bottom Temperature 5.578 feet 2 hours 115.59 F			Very Thin Bedde	4   "	1=OLOGIC CLAS	SIFICATION	
5.70) feet 3 hours 118.50 F	<b>₁</b> ├──		CB	<u></u>	•		
7,490 feet 2 hours 147,0° F	LAHIN		Laminated				
8,170 feet 2 hours 158.00 F	1   •~~```	``	O.) cm— Thinly Laminate	D.D	Н. 64:	6 4	
<u> </u>	1		CHIEFF COMINACE			<del></del>	
	_						
Puill Hala Booard			<b>*</b>	Dago 27			

Drill Hole Record Cominco Page 27 6-3 District Western Hole No. DDK6464 Property Sullivan Tests of Hor. Comp. Location Commenced Vert. Comp. Corr. Dlp Core Size Completed â True Brg. Logged by Co-ordinates S % Recov. Objective Analysis Description Foolsge Quertx wacks, quartz arenits, with a fair amount of wacks and minor subwacks and 5007.0 - 5053.0 argillite: thick bedded; bed contacts sharp and flat, some slightly wavy. Predominantly ergillite 5020 - 5023.5' has a 10 cm fault of gouge and rock chips, upper contact of fault cuts core at  $40^\circ$ . Bedding to core: curves from  $35^\circ$  to  $15^\circ$  8 5020', cleavage is opposite at  $63^\circ$ ,  $45^\circ$  6 5033'. Wacks, subwacks and argillite; medium gray; thin bedded, rarely laminated; bed contacts sharp and wavy (folding?); beds are graded. Core is broken from 5060 - 5065', 3lickensides noted on some bedding planes, but not common. Bedding/cleavage (opposite?) 42°/02° @ 5037'. 5053.0 - 5065.0 Quartz wacks, light grey, fine sand. single thick bed. Sparse fine white flecks are calcareous. Nottled alteration - biotite and bleaching. 5065.0 - 5069.0 Wacke, Subvecke. Argillite, medius to dark grey, thin bedded to lasinated, contacts sharp and flat. One 40 cs bed of Quartz wacke, light grey, internally convoluted. Large rip-up clast within one thin bed. Bedding to core  $42^{\circ}$  to  $56^{\circ}$ , cleavage to core  $05^{\circ}$  in opposite sense to bedding. 5069.0 - 5074.0 Quertz wacks, light to sedius gray, thick bedded, rare fine sand, short weak calcareous patches (one strong), sedius gray, thin bedded to lesinated. Contacts generally sharp and flat however deep scour(7) and large detached flame at 5115 and 5120'. Bedding to core 63° at 5123'. 5074.0 -5140.0 5140.0 - 5287.0 Vacke, minor Subwacke and Argillite, occasional isolated thick bed of Quartz eranite or Cuartz wacks. Hedium grey, thick and medium bedded, bed contacts sharp to distinct and flat, some wavy. The subwacks and argillite are thin bedded to lesinated or rarely wavy laminated and cross bedded; subwacks and argillite intervals rarely exceed 40 cm. Bedding to core 55° 8 5154', 70° 6 5192', 54° 6 5253' with cleavage 45° in opposite sense, 70° 6 5287'.

5,114,000		Hole No. DDH6464	Cominos Page 28			•	ļ
Property Sullivan	District Vestern	100-100.					١
Commenced	Location	Tests at	Hor. Comp.		İ		ŀ
Completed	Core Size	Corr. Dip	Vert. Comp.		ļ	Оio	١
Co-ordinates		True Brg.	Logged by	ᅴᇍᆝ	L	Įē i	l
Objective		% Recov.	Date	- ië	6	Soller	]
- h	iption		<del></del>	Analy		19	1
From To	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			— <del>[</del> ]	厂	戸	Į
5287.0 - 5586.0	Hacke with moderate Subwacke an	d Argillite; minor occa	sional Quartz wacke and		<del> </del> -	<b> </b>	ł
	Quartz arenite. Fold zone, dril mense 0 = opposite, S = same as				⊢	ļ	ļ
	@ 5447'; 15°/41°/0 @ 5547'; 21				┡	₩.	ļ
1	wave-length folds, however prim				乚	ļ	1
1	to core. Souge zone with shear occurs at 5394.5%.	8 OT 30° and 48° from 5394	.0 to 3394.5'   1.5' short	1	<del> </del>	↓_	ļ
					Щ	╙	1
5586,9 - 5588.3	Diebase(?) dike - fine grained,	greener fairty uniform roc	ek, both contacts 60°.	$\sqcup$	╙	╙	1
5588.3 - 5598.5	Quartz arenite, light grey, sing	le? or amalgamated unit.	Basal contact 50°.		ota	╄	1
5598.5 - 5682.0	Wacke, Subwacks, and Angillite	with a few single quarty	wacke or quartz arenite		$\vdash$	igspace	4
	beds at regular intervals, =				丄	<u> </u>	_
	subwacke and angillite up to 3' quantz wacke and quantz arenit				L	<u> </u>	
	(although folded by later tect	onic activity). Distinc	t cross bedded interval		乚	丄	
	• 5602'. Bedding/cleavage/sense • 5624'. 60°/35°/D • 5644'. 80°/				L		
1	·	·			$\Box$		
5682.0 - 5691.5	Quartz arenite. light grey, thic	k and very thick bedded, c	contacts sharp and wavy.				
5691.5 - 5791.0	Macke, 20% Quartz wacke and Qua				L		
	medium and thick bedded with a to diffuse, generally flat. Up				上	1_	
	in clusters at irregular inter	vals. 3 cm thick quartz	seam with flanking gouge				
j	in bedding parallel fault (Minor 78° 0 5730', 81° 0 5757', 65° 0		o core: 789 0 56941,				
	72 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-7				$\Box$	
						П	
	+			`		1	•
<u> </u>		· · · · · · · · · · · · · · · · · · ·					-
Drill Hole Reco	rd		<b>*</b>				I
TOTAL FIGURE	iu .		Cominco Page 29	1	1		l
Sullivan	District Western	Hole No. DDH6464	•	- 1 - 1	1	1	ĺ
Property	Location	Tests at	Hor. Comp.	1 1	l	]	I
Commenced	Core Size	Corr. Dip	Vert. Comp.	<b>⊣</b> !		} '	١
Completed	Cole 8126	True Brg.	Logged by	- 1		흅	
Co-ordinates		% Recov.	Date	。	p.	2	
Objective		A HIGON.	Deta		5	Codie	
Footage Descri	plon			Analy	yele		_

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					_		— <u>`</u>	,
Drill Hole Recor	d <sub>District</sub> Western	Mole No. DDH6464	Common Page 29					7
rioperty	Location	Tests at	Hor. Comp.	}	ĺ	] ]	- }	Ž.
Commenced Completed	Core Size	Corr. Dio	Vert. Comp.		1		1	
Co-ordinates	00:4024	True Brg.	Logged by		1	충		١,
Objective		% Recov.	Date	e e		1 z	ۇ ۋا نو	ength No.
						8	,	<u>و و</u>
ootage Descrip	olion			Anal	iyele	1	7	
5791.0 - 5861.0	Vecke/Subwecke/Argillite with	sinor Quarte wacks/Quarts a	repite medium to light		$\Box$	$\Box$	$\Box$	
	grey, medium, thin bedded and 1	eminated, some of the quar	tz wecke/quartz arenite		$\Box$			
	occurs in thick beds, bed con to doze: 74° 8 5791', 80° 8 58		most ere flat. Sedding	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	<del> </del>	_	_
NOTE:	Below 5854', started to add 6	meter long rods to the str	ing instead of 18 foot	-	╄	$\sqcup$	$\dashv$	$\dashv$
·	rods. Depths according to fo	otage blocks assume these re	ods are 20 feet long and	-	╀	╀	$\dashv$	$\dashv$
	these are depths shown first. least twice 10 foot rods were				╁	╁	$\dashv$	$\dashv$
	that were equivalent to a who True depths are rounded to me				╀╌	╁		-
	blocks.	arest 0.5 or 0.1 feet as per	neptits based on rootage		十	╂═┼	-	-
5861.0 - 5868.5	Quartz arenite, white, wedium flat.	to coarse grained, two b	eds, contacts distinct,		+	$\Box$		$\dashv$
5868.5 - 5878.5	Wacke/Subwacke, minor Argillite	. minor quartz warke. medium	grav. thin and medium		┿	╀╾┼	┰	$\dashv$
(5868.5-5878.0) +	bedded with whort laminated disseminations of pyrrhotite ho	intervals, contacts are sh	arp and flat. Fine weak		┿	<del>                                     </del>	$\neg$	_
	••	<u>-</u>		<u>                                   </u>	$\top$	1 1		_
5878.5 - 5914.0 (5878.0-5913.0)+	Quartz wacke, occasionally Qua of Wacke/Subwacke/Argillite, 1				$\top$	$\Box$	$\dashv$	$\sqcap$
	thick bedded with rare thin bed to core 80° 0 58901.				$\vdash$	$\Box$		$\exists$
5914.0 - 5986.0	Macke with Bubwacke/Argillite t	ops, with 40% typically calc.	areous Quartz wacks.	<b>├</b>	+	+ +	-	<del>                                     </del>
(5913, 0-5984.0)+	medium grey, thick and medium small patches of pyrrhotite, in				十	1		一
	laminated units alternate wi	th thick beds (usually Qua	rtz wacke), bed contacts		十	$\vdash$		
	sharp to distinct and flat. Se	veral sets of cross laminae	noted, both in laminated	. [	I			
į	* First set of footages as per	footage blocks, bracketed fo	otages are true feet.			1		

Commanded  Localion  Tests at  Hor. Comp.  Completed  Corr Size  Corr Dip  Vert. Comp.  Completed  True Sig. Logged by  Intervals and within the Guartz wacke. Bedding to core 700 g 5938', 800 g 5967',  Signature of the Corr Size of Corr Size Oct Size of Corr Size Oct Size of Corr Size Size of Corr Size Size of Corr Size Oct Size of Corr Size Oct Size of Corr Size Size of Corr Size Oct Size of Corr Size Size of Corr Size Oct Size of Corr Size Size of Corr Size Size of Corr Size Oct Size of Corr Size Size of Corr Size Oct Size of Corr Size Size of Corr Size Oct Size o	Property Sullivan	District Western	Hole No. DDK6464	<b>~~</b>		ĺ		
Companied  Core Size  The Big.  Logadedy.  The Big.  Logadedy.  S. Rerow.  Date  Intervals and within the Guert weeks. Bedding to core 70° d 9502°, 80° d 950°,  10° d 7500°.  Soft 7500°.				Hor. Comp.				
Dependence   No Recov.   Date   Section   Section   Section   Date   Section						l		1
Description  S. Retow.  Date  Description  S. Retow.  Date  Description  Intervals and within the Guartz weeke. Bedding to core 70° @ 9320′. 80° 8 506″.  S06 .0 - 6030.0  S07 .0 - 6030.0  S08 .		40.0 44.0				1	ā	1
intervale and within the Guart weeke. Bedding to core 70° € 2938', 60° € 2967', 80° € 2960', 500° €					Ę	ė	1	١.
Description	Oplective					<u> </u>	8	i i
intervals and within the Guerth weeks. Bedding to core 700 # 57887, 600 # 57677, 800 # 57987.  5785.0 - 6008.0 0  15584.0-8030.00  15584.0-803		iption			Anal	lysis L	1_	T
Series and Series (2001). Our transport of the property of the series (2001). Our transport of the series of the s	100		tz wacke. Bedding to core	70° € 5938', 80° € 5967',		<u> </u>	<del>-</del>	+
copest_0-e005_0.)  cope_fire_grained_below_6000_00_userts_vacks/Dusches/Armillite_in_very_and_planer_leained_intervale_user_to_to_to_core_700_00_00_00_00_00_00_00_00_00_00_00_00			and the JOSEPh Hanks (Cubine	anto (Amel 11) (An Office and (am		†	+-	T
pedicationally thick (rare very thick) bedded with few medius and thin bedde. Bedding to core 700 6 5950. 06 6000.  6038.0 - 6073.0 (6053.0 - 6073.0)  (6053.0 - 6073.0)  (6053.0 - 6073.0)  (6053.0 - 6073.0)  (6053.0 - 6174.0)  (6053.0 - 6174.0)  (6073.0 - 6114		gray, fine grained, below 603	30' Quertz wacke/Quertz sr	enite is calcareous, some		1-	1-	$\top$
and weekly lesinated, the quarts wecke is usually in thick bade, contacts harp to vague and weekly lesinated. Bedding to core 150° 8007, 70° 80072'.  6075.0 - 6114.0 (6071.0-6110.0)*  6075.0 - 6114.0 (6071.0-6110.0)*  6075.0 - 6114.0 (6071.0-6110.0)*  6114.0 - 6122.0 (Gort weekly collarateous, Sedding to core; 50° 80007, 70° 80072'.  6114.0 - 6122.0 (Gort wecke/some Quarts exemits, sinor Vocke/Subusche/Argillite, medium srey, and first to wary. No collarates bades noted, Sedding to core 75° 8 6107'.  6114.0 - 6122.0 (Gort wecke with a few Boarts exemits bed at each, sedding to core 75° 8 6107'.  6112.5 - 6142.5 (Garts wacke with a few Boarts orenite bed at each, sinor Vocke/Subusche/Argillite bed by a located in a leained bed with a few cross beds noted. Wacke interval 6160 - 6160', saveral weekly a located in a leained and the save he is ealised to be bed with a located in a leained on the wacke in calcareous as well along the located of the saverage of 100° 100° 100° 100° 100° 100° 100° 100		predominantly thick (rare very	thick) bedded with few med			-	T	Ŧ
and weekly lesinated, the quarts wecke is usually in thick bade, contacts harp to vague and weekly lesinated. Bedding to core 150° 8007, 70° 80072'.  6075.0 - 6114.0 (6071.0-6110.0)*  6075.0 - 6114.0 (6071.0-6110.0)*  6075.0 - 6114.0 (6071.0-6110.0)*  6114.0 - 6122.0 (Gort weekly collarateous, Sedding to core; 50° 80007, 70° 80072'.  6114.0 - 6122.0 (Gort wecke/some Quarts exemits, sinor Vocke/Subusche/Argillite, medium srey, and first to wary. No collarates bades noted, Sedding to core 75° 8 6107'.  6114.0 - 6122.0 (Gort wecke with a few Boarts exemits bed at each, sedding to core 75° 8 6107'.  6112.5 - 6142.5 (Garts wacke with a few Boarts orenite bed at each, sinor Vocke/Subusche/Argillite bed by a located in a leained bed with a few cross beds noted. Wacke interval 6160 - 6160', saveral weekly a located in a leained and the save he is ealised to be bed with a located in a leained on the wacke in calcareous as well along the located of the saverage of 100° 100° 100° 100° 100° 100° 100° 100	5038 A - 5078 A	Nacha/Subuscka/Arcillita Bat C	Dontty works 15%, sadius or	Tow. sadius and this hadded		Ι	T	1
wacke is weakly calcareous. Bedding to core: 650 6 6857, 750 6 6872'.  6071.0-6110.00*  Gestra wacke/some Quorks sensite, ainon Vacke/Subwacke/Argillite, andius gray, thick bedded with a few medius. this end lasinshed bedde, contacts sharp to vague and filet to wary. No calcareous beds noted. Bedding to core 750 8 5017.  6112.0 - 6132.0 Wacke/Subwacke/Argillite, sinor Duartz vacke, asdium gray, sedium bedded, contacts sharp to vague and filet to wary. No calcareous beds noted. Bedding to core 750 8 5017.  6127.0-6137.00*  6127.		and weakly laminated, the quar	tz wecke is usually in t	thick beds, contacts sharp		Τ	Ţ	1
6073.0 - 6114.0  (6071.0-6110.0)-  (6071.0-6110.0)-  (6071.0-6110.0)-  (6071.0-6110.0)-  (6071.0-6110.0)-  (6071.0-6110.0)-  (6171.0-6110.0)-  (6171.0-6112.0)  (6114.0 - 6127.0  (6114.0 - 6127.0  (6114.0 - 6127.0  (6114.0 - 6127.0  (6114.0 - 6127.0  (6110.0-6127.0  (6114.0 - 6127.0		to vague and usually flat. Pyr	rrhotite common at the base edding to core: 850 M 6845'	of some beds; some quartz '. 750 8 6872'.		Γ		T
icO71.0-6110.0:  thick budded with a few sedius, thin and lasinated beds, contexts sharp to vegue and filet to wayr. Mo calcarous beds noted, Badding to core 75°0 6101.  6112.0 but the mode of the calcarous beds noted, Badding to core 75°0 6101.  6112.0 - 6182.5 Caustry works with a few Guartz erenite beds at start, minor Wacke/Subwacke/Argillite, usually as hed tope, sedius grey, thick and sedius bedded, contacts distinct to usually as hed tope, sedius grey, thick and sedius bedded, contacts distinct to beds but alsons tall is leminated. One laminated Quartx wacks is calcarous as are light lesinations, and cross leminated quartx wacks is calcarous as are light lesinations, and cross leminated quartx wacks are landing to core 75°0 6 6132.0 Subwacks/Argillite with sinor Wacks/Guartx wacks, sedius grey, thin and medius bedded, contacts and as a sedius of the first set of footages as per footage blocks, bracketed footages are true feet.   Drill Hole Record  Property Sullivan  Daniel Western  Hole No. DDR6464  Property Sullivan  Daniel Western  Hole No. DDR6464  Compaled  Compaled  Compaled  Compaled  Compaled  Compaled  Dascription  Fig. Description		·	-	•				$\perp$
completed Completed Consists Consists Western Hole No. DDR6464  Drill Hole Record  Completed Consists Tree Bg.  Consi						$\Gamma$		
C612.0 - 6182.5 curtx wache with a few Guertz sremite bade at start, minor Vacher/Subwacher/Argillite description of the property of the prope						1	<u> </u>	$\perp$
6132.0 - 6182.5  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6177.0)-  (6127.5-6187.				rey, sedium bedded, sose		ļ_	1_	
usually as bed tops, redium grey, thick and endium bedded, contacts distinct to vapus, some flots, a few cross beds noted. Wacke interval 610 - 6165', several beds but alloat all is leminated. One leminated quertx weeke is calcarsous es ere injuh leminated and contacts alload quertx weeke is calcarsous es ere injuh leminated. One leminated quertx weeke is calcarsous es ere injuh leminated. Sedding to core 750 6 6132', 80° e 6164', 81° e 6174'.  6182.5 - 6192.0  CEBRIATO Page 31  Drill Hole Record  Dril	(6110.0-6127.5)•	thin and leminated beds (core b	oroken).		ļ	1_		4
vasue. some flat. a few cross bade noted. Wacke interval 5100 - 6160', saveral bade but alsoated bil is lasminated. One instanted quartx wacke is colocarous as are light lesinations, and cross lesinations in the Wacke interval. Bedding to core 750 6 6132', 800 6 6164', 810 6174'.  6182.5 - 6192.0 Subwacke/Argillite with sinor Wacke/Quartx wacke, sedius grey, thin and medium for the state of footoges as per footage blocks, bracketed footages are true feet.  Drill Hole Record  Property Sullivan  Distinct Western Meda No. DBH664  Property Sullivan  Distinct Western Meda No. DBH664  Commanced Location Tests at Host. Comp.  Commanced Core Size Corr. Dip Vert. Comp.  Completed Core Size Corr. Dip Vert. Comp.  Completed Core Size Corr. Dip Vert. Comp.  Completed No. DBH664  Analysis					-	╄.	┿	4
beds but alsoat all is lesinated. One lashnated quartz wacke is calcareous as are light lesinations, and cross lasinations in the Wacke interval. Badding to core 750 8 6132'. 800 8 6164', 810 8 6174'.  6182.5 - 6192.0 Subwacke/Argillite with sinor Nacke/Guertz wacke, seading grey, thin and seading to core 750 8 6192.0'.  • First set of footoges as per footage blocks, bracketed footages are true feet,  Drill Hole Record  Damind Western Hole No. DBH6464  Commanced Localion Falls Mer. Comp.  Complaintd Core Size Corr. Dp Vert. Comp.  Complaintd Core Size Corr. Dp Vert. Comp.  Deletive No. Recor.  Date Description  For 19 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(6127.5-6177.0)•					+-	+	╀
core 750 @ 61337. 800 @ 61647. 810 @ 61747.  6182.5 - 6192.0  Subwacke/Argillite with minor Wecke/Guartz wacke, medium grey, thin and medium (6177.0-6187.0)  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocke, bracketed footages are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are true feet,  First set of footoges as per footage blocket, brage are set,  First set of footoges as per footage are set,  First set of footoges as per footage blocket, b		beds but alsost all is lamine	sted. One laminated quar	rtz wacke is calcareous es		+	+	+
Drill Hole Record    Commence				Turanter, backrud fo		+-	<del> </del>	+
Drill Hole Record  Properly Sullivan  District Western  District Comp.  District District Western  District District District Western  District District District Western  District District District Western  District D				am grey, thin and medium			1	#
Drill Hole Record    Commance   Commance   Location   Fasts at   Mor. Comp.			•	footogen are town foot	·  _	$\perp$	+	+
District Western Hole No. DBH6464  Commenced Location Tests at Hor. Comp.  Completed Core Size Corr. Dip Vert. Comp.  Co-ordinates  True Brg. Logged by  Co-ordinates  Objective % Recov. Date  State Corr. Dip Vert. Comp.  Co-ordinates  Objective % Recov. Date  State Corr. Dip Vert. Comp.  Co-ordinates  Objective % Recov. Date  State Corr. Dip Vert. Comp.  Co-ordinates  Objective % Recov. Date  State Corr. Dip Vert. Comp.  Corr. Date  Corr. Dip Vert. Comp.		- riret set di 100tages as per	TOUCHER DIOCKS, DISCHALSE	.vvtayes are true lest.	E .			
Commenced Location Tests at Mor. Comp.  Commenced Core Size Corr. Dip Vert. Comp.  Co-ordinates True Brg. Logged by  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates True Brg. Logged by  W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates True Brg. Logged by  W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Co-ordinates W. Recov. Date  Solication Tests at Corr. Dip Vert. Comp.  Analysis  Solication Tests at Corr. Dip Vert. Date  Solication Tests at Corr. Date  Solication Tests at Corr. Dip Vert. Date  Solication Tests at Corr. Date  Solication Tests at Corr. Date  Solication Tests at Corr. Date  Soli	Drill Hole Reco	ord		<b>*</b>		1 		<u> </u>
Completed Core Size Corr. Dip Vert. Comp.  Completed Core Size Corr. Dip Vert. Comp.  Co-ordinates		Hantons		<b>*</b>		<u> </u>		
Objective  True Brg. Logged by  Recov.  Date  Description  Condinates  Nector.  Date  Description  Condinates  Condinates  Nector.  Date  Condinates  Analysis  Condinates  Nector.  Date  Condinates  Nector.  Date  Condinates  Analysis  Condinates  Nector.  Date  Analysis  Condinates  Analysis  An	Property Sullivan	District Western	Hole Na. DDH6464	Common Page 31				
Objective  Notice  Description  Contage  Description  Contage  Description  Contage  Description  Contage  Contage  Description  Contage	Property Sullivan	District Western Location	Hole No. DDH6454 Tests at	Comingo Page 31  Hor. Comp.				
Description	Property Sullivan Commenced Completed	District Western Location	Hole No. DDH6454 Tests at Corr. Dip	Comp. Page 31  Hor. Comp.  Vert. Comp.				
Section   Description   Percent   Section	Property Sullivan Commenced Completed Co-ordinales	District Western Location	Hole No. DDH6454 Tests at Corr. Dip True Brg.	Enminen Page 31  Hor. Comp.  Vert. Comp.  Logged by	E	Brg.		**
in upper portions of beds, medium grey, fine, some medium grained, thick bedded, bed contacts sherp to distinct. Badding to core 72° 8 6204'.  6215.0 - 5239.0 About 7' short in this interval, Wacke/Subwacke/Argillite, medium grey, medium and thick bedded with short interval of thin beds. About 40% of interval is broken core. Bedding to core: 77° 8 6219'.  6239.0 - 6248.0 Macke/Guartz wacke/(quartz aremite) with minor Subwacke/Argillite, medium grey, thick (one very thick) bedded (medium beds present), bed contacts distinct to vague, wavy. Jone quartz wacke equartz aremite is weakly to moderately colcarsous.  6248.0 - 6275.0 (6242.0-6268.0)**  Wacke, some Subwacke/Argillite, minor Guartz wacke over very short lengths, moderately colcarsous, medium grey, primarily medium bedded (some thick and thin beds), bed contacts sharp to distinct and flat, many beds internally laminated. Pyrrhotite is present disseminated along laminations within argillite and some bed bases and may be weakly disseminated elsewhere. Both laminated and some massive looking wacke are generally moderately colcarsous as are abundant white lethe noted over 30% of interval. Bedding to core: 75° 8 6250', 75° 8 6273', cleavage 24° in opposite sense to bedding 8 6256'.  6275.0 - 6300.0 Guertz aremite, minor Quartz wacke/Wacke/Subwacke/Argillite, medium to light grey, fine greined, thick bedded, bed contacts sharp and flat to wavy, some are deformed, graded tops generally quite thin, most beds ere massive in mappearence. Only one quartz aremite bed is calcareous. Pyrrhotite masses up to 1X3 cm with associated chlorite and some of eilicification (7within quartz aremite/	Property Sullivan Commenced Completed	District Western Location	Hole No. DDH6454 Tests at Corr. Dip True Brg.	Enminen Page 31  Hor. Comp.  Vert. Comp.  Logged by			Softe	Elev.
6215.0 - 6239.0 About 7' short in this interval. Wacke/Subwacke/Argillite, medium grey, medium core. Bedding to core: 770 @ 6219'.  6239.0 - 6248.0 Wacke/Guartz wacke/(quartz arenite) with minor Subwacke/Argillite, medium grey, thick (one very thick) bedded (medium beds present), bed contacts distinct to vague, wavy. Some quartz wacke * quartz arenite is weakly to moderately calcarsous.  6248.0 - 6275.0 Wacke, some Subwacke/Argillite, minor Quartz wacke over very short lengths, moderately calcarsous. medium grey, primarily medium bedded (medium argillite and thin beds), bed contacts sharp to distinct and flat, many beds internally leminated. Pyrrhotite is present disseminated along leminations within argillite and some bed bases and may be weakly disseminated elsewhere. Both laminated and measure looking Wacke ere generally moderately colcarsous es are abundant white laths noted over 30k of interval. Bedding to core: 750 @ 6250', 750 @ 6273', cleavage 240 in opposite sense to bedding @ 6256'.  6275.0 - 6300.0 Guertz arenite, minor Quartz wacke/Wacke/Subwacke/Argillite, medium to light grey, fine greined, thick bedded, bed contacts sharp and flat to wavy, some are deformed, graded tops generally quite thin, most beds ere massive in mappearence. Only one quartz arenite bed is calcareous. Pyrrhotite masses up to 1X3 cm with associated chlorite and some of eilicification (7within quartz arenite/	Property Sullivan Commenced Completed Co-ordinates Objective Deace	District Western  Location  Core Size	Hole No. DDH6454 Tests at Corr. Dip True Brg.	Enminen Page 31  Hor. Comp.  Vert. Comp.  Logged by			Softe	Elev.
6239.0 - 6248.0  Wacke/Guartz wacke/(quartz arenite) with minor Subwacke/Argillite, medium grey, thick (one very thick) bedded (medium beds present), bed contacts distinct to vague, wavy. Jose quartz wacke quartz arenite is weakly to moderately calcarsous.  6248.0 - 6275.0  (6242.0-6268.0)*  Wacke, some Subwacke/Argillite, minor Guartz wacke over very short lengths, moderately calcarsous. medium grey, primerily medium bedded (mome thick and thin beds), bed contacts sharp to distinct and flat, many beds internally laminated. Pyrrhotite is present disseminated along laminations within argillite and make bed bases and may be weakly disseminated elsewhere. Both laminated and make measure looking Wacke are generally moderately calcarsous as are abundant white laths noted over 30k of interval. Bedding to core: 75° € 6250', 75° € 6273', cleavage 24° in opposite sense to bedding # 6256'.  6275.0 - 6300.0  Guartz arenite, minor Guartz wacke/Wacke/Subwacke/Argillite, medium to light grey, fine grained, thick bedded, bed contacts sharp and flat to wavy, mome are deformed, graded tops generally quite thin, most beds are massive in mappearance. Only one quartz arenite bed is calcarsoum. Pyrrhotite masses up to 1X3 cm with massociated chiorite and coarse biotite noted in zones of allicification (7within quartz arenite/	Property Sullivan Commenced Completed Co-ordinates Objective Footage Deact From To  6192.0 - 6215.0	District Western  Location  Core Size  ription  Quartz arenite, minor quartz	Hole No. DDH6464  Tests at  Corr. Dip  True Brg. % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date  tz wacke/Subwacke/Argillite			Softe	Etev.
6239.0 - 6248.0  Wacke/Guartz wacke/(quartz arenite) with minor Subwacke/Argillite, medium grey, thick (one very thick) bedded (medium beds present), bed contacts distinct to vague, wavy. Some quartz wacke quartz arenite is weakly to moderately calcarsous.  6248.0 - 6275.0  (6242.0-6268.0)*  Wacke, some Subwacke/Argillite, minor Guartz wacke over very short lengths, moderately calcarsous, medium grey, primerily medium bedded (some thick and thin beds), bed contacts sharp to distinct and flat, meny beds internally laminated. Pyrrhotite is present disseminated along laminations within argillite and mome bed bases and may be weakly disseminated elsewhere. Both laminated and mome measure looking Wacke ere generally moderately calcarsous as are abundant white laths noted over 30k of interval. Bedding to core: 75° # 6250', 75° # 6273', cleavage 24° in opposite sense to bedding # 6256'.  6275.0 - 6300.0  Guartz arenite, minor Guartz wacke/Wacke/Subwacke/Argillite, medium to light grey, fine grained, thick bedded, bed contacts sharp and flat to wavy, some are deformed, graded tops generally quite thin, most beds ere massive in appearance. Only one quartz arenite bed is calcarsous. Pyrrhotite masses up to 1X3 cm with associated chiorite and coarse biotite noted in zones of allicification (7within quartz arenite/	Property Sullivan Commenced Completed Co-ordinates Objective Footage Deact From To  6192.0 - 6215.0	District Western  Location  Core Size  ription  Quartz erenite, minor quart: in upper portions of beds, med.	Hole No. DDH6454  Tests at  Corr. Dip  True Brg.  % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date  tx wacke/Subwacke/Argillite tum grained, thick bedded,			Softe	Elev.
6239.0 - 6248.0 (6233.0-6242.0)**  Macke/Guartz wacke/(quartz arenite) with minor Subwacke/Argillite, medium gray, thick (one very thick) bedded (medium beds present), bed contacts distinct to vague, wavy. Some quartz wacke * quartz arenite is weakly to moderately calcarmous.  6248.0 - 6275.0 (6242.0-6268.0)**  Wacke, some Subwacke/Argillite, minor Quartz wacke over very short lengths, moderately calcarmous, medium gray, primarily medium bedded (mome thick and thin beds), bed contacts where the contacts washing the distinct and flat, many beds internally laminated. Pyrrhotite is present disseminated along laminations within argillite and many be weakly disseminated elsewhere. Both laminated and many many beds internally laminated. Pyrrhotite is present disseminated elsewhere. Both laminated and mome massive looking wacke are generally moderately colcarmous as are abundant white laths noted over 30k of interval. Bedding to core: 75° \$ 6250', 75° \$ 6273', cleavegs 24° in opposite sense to bedding \$ 6256'.  6275.0 - 6300.0 (6275.0 - 6300.0 (6275.0 - 6300.0 (6275.0 - 6300.0) (627	Property Sullivan  Commenced  Completed  Co-ordinates  Objective  Pooluge From To  6192.0 - 6215.0  (6187.0-6209.0) =	District Western  Location  Core Size  ription  Quartz arenite, minor quart: in upper portions of beds, medibed contacts sharp to distinct.	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  Z aremite with some Querfium grey, fine, some edd. Bedding to core 72° 6 6:	Hor. Comp.  Vert. Comp.  Logged by  Date  tx wacke/Subwacke/Argillite ium grained, thick bedded, 204'.			Softe	Elev.
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6248.0 - 6275.0  (6242.0-6268.0)*  Wacke, some Subwecke/Argillite, minor Quartz wacke over very short lengths, moderately calcersous. medium grey, primerily medium bedded (some thick and thin beds), bed contacts sharp to distinct and flat, many beds internally laminated. Pyrrhotite is present disseminated along laminations within argillite and some bed bases and may be weakly disseminated elsewhere. Both laminated and mome massive looking Wacke are generally moderately colcarsous as are abundant white laths noted over 30k of interval. Bedding to core: 75° \$ 6250', 75° \$ 6273', cleavage 24° in opposite sense to bedding \$ 6256'.  6275.0 - 6300.0  (6268.0-6293.0)*  Guertz arenite, minor Quartz wacke/Wacke/Subwacke/Argillite, medium to light grey, fine grained, thick bedded, bed contacts sharp and flat to wavy, some are deformed, graded tops generally quite thin, most beds are massive in mappearance. Only one quartz arenite bed is calcareous. Pyrrhotite masses up to 1X3 cm with associated chiorite and most be of allicification (7within quartz arenite/	Property Sullivan  Commenced  Completed  Co-ordinales  Objective  Prom To  6192.0 - 6215.0  (6187.0-6209.0) =  6215.0 - 6239.0  (6209.0-6233.0) =	District Western  Location  Core Size   figilion  Quartz erenite, minor quart: in upper portions of beds, medibed contacts sharp to distinct. About 7' short in this interest and thick bedded with short interest bedding to core: 770 @	Hole No. DDH6464  Tests at  Corr. Dip  True Brg. % Recov.  Z arenite with some Quartium grey, fine, some med. Bedding to core 72° E 6: erval, Wacke/Subwacke/Arg: terval of thin beds, About	Hor. Comp.  Vert. Comp.  Logged by  Date  tz wacke/Subwacke/Argillite ium grained, thick bedded, 204'.  illite, medium grey, medium t 40% of interval im broken			Softe	Etev.
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	Property Sullivan  Commenced  Completed  Co-ordinates  Objective  Footage   Deace From   To    6192.0 - 6215.0  (6187.0-6209.0) =  6215.0 - 6239.0  (6209.0-6233.0) =  6239.0 - 6248.0  (6233.0-6242.0) =  6248.0 - 6275.0  (6242.0-6268.0) =	District Western  Location  Core Size  Core Core Core Core  About 7' short in this intract interval core core core core core core core core	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  Z arenite with some Quartius grey, fine, some med. Bedding to core 72° E 6; erval, Wacke/Subwacke/Argiterval of thin beds, About 6219'.  remite) with minor Subwacke/Argiterval of thin beds present), e + quartz arenite is weak; , minor Quartz wacke over rily medium bedded (some in flat, many beds internal sminetions within argiter delections within argiter delections are abundant core: 75° E 6250', 75° 56'.  acke/Wacke/Subwacke/Argitted contects sharp and flat	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  tz wacke/Subwacke/Argillite ium grained, thick bedded, 204'.  illite, medium grey, medium t 40% of interval im broken  cke/Argillite, medium grey, bed contacts distinct to ly to anderstely calcarsous.  very short lengths, moderatel thick and thin beds), bed ally laminated. Pyrrhotite lite and mome bed boses and and aome massive looking int white lette noted over 0 s 6273', cleavegs 24° in  ite, medium to light grey, to wavy, mome are deformed,	Ana		Softe	E Feet
	Property Sullivan  Commenced  Completed  Co-ordinates  Objective  Footage   Deace From   To    6192.0 - 6215.0  (6187.0-6209.0) =  6215.0 - 6239.0  (6209.0-6233.0) =  6239.0 - 6248.0  (6233.0-6242.0) =  6248.0 - 6275.0  (6242.0-6268.0) =	District Western  Location  Core Size  Core	Hole No. DDH6454  Tests at  Corr. Dip  True Brg.  % Recov.  Z arenite with some Quartium grey, fine, some med: . Bedding to core 72° E 6; erval, Wacke/Subwacke/Arg; terval of thin bede, About 6219'.  renite) with minor Subwac (medium bede present), . quartz erenite is weak; . minor Quartz wocke over rily medium bedded (some ind flat, many beds internal aminations within arg; d elsewhere. Both laminatical core: 75° E 6250', 75° B6'. acke/Wacke/Subwacke/Argill: d contects sharp and flat in, most beds ere massive aous. Pyrrhotite masses we	Hor. Comp.  Vert. Comp.  Logged by  Date  tz wacke/Subwacke/Argillite tum grained, thick bedded, 204'.  illite, medium grey, medium t 40% of interval is broken  cke/Argillite, medium grey, bed contacts distinct to ly to moderately calcarsous.  very short lengths, moderatel thick and thin beds), bed ally laminated. Pyrrhotite llite and mome bed bemse and and momensure locking int white laths noted over 0 \$ 6273', cleavegs 24° in  ite, medium to light grey, to wavy, mome are deformed, it in appearence. Only one p to 1%3 cm with associated	Aria		Softe	Elev.
	Property Sullivan  Commenced  Completed  Co-ordinates  Objective  Footage   Deace From   To    6192.0 - 6215.0  (6187.0-6209.0) =  6215.0 - 6239.0  (6209.0-6233.0) =  6239.0 - 6248.0  (6233.0-6242.0) =  6248.0 - 6275.0  (6242.0-6268.0) =	District Western  Location  Core Size  Core Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Size  Core Size  Core Core  Core Size  Core Size  Core Core  Core Size  And Size  Core Size  Core Size  And Size  Cor	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  Z arenite with some Quartius grey, fine, some med. Bedding to core 72° 6 6:  erval. Wacke/Subwacke/Arg: terval of thin bede, About 6219'.  renite) with minor Subwacke/Arg: terval of thin bede present), e quartz arenite is week; , minor Quartz wacke over rily medium bedded (some ind flat, many beds intermaliaminations within argid elsewhere, Both leminations within argid elsewhere, Both leminations calcoreous as are abundancore: 75° 6250', 75' 66'. acke/Wacke/Subwacke/Argill: d contacts sharp and flat in, most beds are massive acus. Pyrrhotite masses usted in zones of silicifications.	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  tx wacke/Subwacke/Argillite ium grained, thick bedded, 204'.  illite, medium grey, medium t 40% of interval is broken  cke/Argillite, medium grey, bed contacts distinct to ly to moderately calcarsous.  very short lengths, moderatel thick and thin beds), bed ally laminated. Pyrrhotite litte and some bed beaus and and measure looking int white lathe noted over 0 \$ 6273', cleavage 240 in  ite, medium to light grey, to wavy, mose are deformed, e in mppearence. Only one p to 10% cm with amsociated tion (Twithin quartz arenite/	Aria		Softe	Elev.
	Property Sullivan  Commenced  Completed  Co-ordinates  Objective  Footage   Deace From   To    6192.0 - 6215.0  (6187.0-6209.0) =  6215.0 - 6239.0  (6209.0-6233.0) =  6239.0 - 6248.0  (6233.0-6242.0) =  6248.0 - 6275.0  (6242.0-6268.0) =	District Western  Location  Core Size  Core Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Core  Core Size  Core Size  Core Core  Core Size  Core Size  Core Core  Core Size  And Size  Core Size  Core Size  And Size  Cor	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  Z arenite with some Quartius grey, fine, some med. Bedding to core 72° 6 6:  erval. Wacke/Subwacke/Arg: terval of thin bede, About 6219'.  renite) with minor Subwacke/Arg: terval of thin bede present), e quartz arenite is week; , minor Quartz wacke over rily medium bedded (some ind flat, many beds intermaliaminations within argid elsewhere, Both leminations within argid elsewhere, Both leminations calcoreous as are abundancore: 75° 6250', 75' 66'. acke/Wacke/Subwacke/Argill: d contacts sharp and flat in, most beds are massive acus. Pyrrhotite masses usted in zones of silicifications.	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  tx wacke/Subwacke/Argillite ium grained, thick bedded, 204'.  illite, medium grey, medium t 40% of interval is broken  cke/Argillite, medium grey, bed contacts distinct to ly to moderately calcarsous.  very short lengths, moderatel thick and thin beds), bed ally laminated. Pyrrhotite litte and some bed beaus and and measure looking int white lathe noted over 0 \$ 6273', cleavage 240 in  ite, medium to light grey, to wavy, mose are deformed, e in mppearence. Only one p to 10% cm with amsociated tion (Twithin quartz arenite/	Aria		Softe	E.ev.

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p-ordinates True Brg.	Logged by	╡ <sub>⋹</sub> │┇		
bjactive % Recov.	Date			3
Description		Analys	215	ļ.,
iom To	n medium badded, some		_	╽-
6300.0 - 6314.0 Argillite and subwacks with some water, method and figure (6293.0-6307.0)* contacts sharp and flat. Hild shearing parallel to cleavage to back grey argillite clasts noted near 6310'. Bedding to 590 in opposite sense 6 6305'.				
6314.0 - 6339.0 Wacks, minor subwacks/argillite, medium to dark grey, thick to vague, some flat, some deformed, many have slickens a few mm of gouge. Host beds are massive and some have this pyrrhotite. Hoderately folded in places. Bedding/cleocore: 720/460/Opp. 6 6315', 390 6 6320', 650 6 6332'.	ick ergillite tops containing			+
6339.0 - 6353.0 Yacks, minor subwacks/argillite, medium to dark grey, thin beds, bed contacts sharp to distinct and flat, several cross-beds noted at 6348°. A few short intervals have weak Bedding/cleavage/sense to bedding/to core: 56°/46°/0pp 8 6	kly disseminated pyrrhotite.			
6353.0 - 6390.0 Guartz wecke/wacke 75%, aubwacke/argillite 25%, madium gregotion of the state of the same folded, long intervals appearance, most are messive, some argillites have argilled pyrrhotite in cleavage. Bedding to core 70° \$ 6353', 70° to 32° on small overturned fold \$ 6375', 54° \$ 6387'.	ceous wisps and disseminated			-
6390.0 - 6455.0 Wacke/subwacke/argillite, medium grey, thick and very thic (6381.0-6445.0) only from 6390' - 6393', bed contacts where to distinct thrudded, rorely flat, most beds are fairly homogeneous annulum lithotype predominating. The upper portions of the contacts of the bottom parts, are disaggregated and should be contacted to the contact of	tt. wavy to tectorically ous with long intervals of of several beds, and in tradded; rip-up clasts and		-	
isolated rounded clasts, although rare, ere present.  some pre-consolidation disturbance affected some beds. Py silty layers and disaggregated wisps and appears to be ali	These features indicate rrhotite is common within	-	-	-
* First set of footeges as per footege blocks, bracketed f	Cootages are true feet.	•	╁	
Drill Hole Record	Mamioon Page 33		ı	
Property Sullivan District Western Hole No. DDH6464	Cominon Page 33			
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Property Sullivan District Western Hole No. DDH6464 Commenced Location Tests at	Hor. Comp.			
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Property Sullivan District Western Hote No. DDH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date		Ŀ	_
Property Sullivan District Western Hole No. DDH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Footage Perception From To  Bedding/cleavage and sense relative to bedding, to 40°/45°/Opp # 5434', 0°/50° over 2' in fold # 6449'.  5455.0 ~ 6482.0 Subvecke/argillite with 10% wacker light grown 4 many	Hor. Comp.  Vert Comp.  Logged by  Dete  Core: 550/340/Opp # 6391*.		Ŀ	_
Property Sullivan District Western Hole No. DDH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Footage Description  Bedding/cleavage and sense relative to bedding, to 400/450/Opp 8 6434', 00/500 over 2' in fold 8 6449',  6455.0 - 6482.0 Subwacks/argillite with 10% wacks, light gray, 4 very (the lowest could be numerous thinner units, contacts of are fairly distinct ways to speewhat irrequire.	Hor. Comp.  Vert. Comp.  Logged by  Dels  core: 550/340/Opp # 6391'.  thick re-sedimented units f the bases of these units		Ŀ	_
Property Sullivan District Western Hole No. DDH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Footage Description  Footage Property To  Bedding/cleavage and sense relative to bedding, to 40°/45°/Opp 8 5424', 0°/50° over 2' in fold 8 5449',  5455.0 - 6482.0 Subwacke/argillite with 10% wacke, light gray, 4 very (6445.0-6472.0) (the lowest could be numerous thinner units, contacts of are fairly distinct wavy to somewhat irregular, each wacke portion is fairly homogeneous with only rare class than 20% of the overall thickness of the unit the units.	Hor. Comp.  Vert Comp.  Logged by  Date  Core: 550/340/Opp # 6391'.  thick re-sedimented units f the bases of these units unit is graded, the basel ts and constitutes no more		Ŀ	_
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Property Sullivan District Western Hole No. DDH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Footage Prom To  Bedding/cleavage and sense relative to bedding, to 400/450/Opp 8 6434', 00/500 over 2' in fold 8 6449',  6455.0 = 6482.0 Subvacke/argillite with 10% wacke, light gray, 4 very (the lowest could be numerous thinner units, contacts of are fairly distinct wany to somewhat irregular, each wacks portion is fairly homogeneous with only rare class than 20% of the overall thickness of the unit, the upper contain an abundance of floating lithic classes—argilhave distinct outlines though often shredded in appearance disseminated pyrrhotite and heve very irregular outlines though often shredded in appearance disseminated pyrrhotite and heve very irregular outlines	Hor. Comp.  Vert Comp.  Logged by  Date  Core: 550/340/Opp @ 6391',  thick re-sedimented units f the bases of these units unit is graded, the bessi ts end constitutes no more subwacke/argillite portions lleceous clasts (very few) e, subwacke clasts contain		Ŀ	_
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Property Sullivan District Western Hole No. DDH6464  Commenced tocation Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Bedding/cleavage and sense relative to bedding, to 400/450/Dpp 8 6434', 00/300 over 2' in fold 8 6449'.  6455.0 - 6482.0  (6445.0-6472.0)*  Subwacks/argillite with 10% wacks, light gray, 4 vary (the lowest could be numerous thinner units, contacts of are fairly distinct wavy to somewhat irregular, each wacks portion is fairly homogeneous with only rare class than 20% of the overall thickness of the unit, the upper a contain an abundance of floating lithic clasts-argillite and alightly silty cosposition of the very indicative of complete disaggregation and incorporate composition to the subwacks clasts. Pyrrhotite contain this interval. The lowest addisantation unit comprises bade all containing elongate clasts and shreeds and has appearance, this unit say be a submarine slide/elump were probably eroded within the basin and resedimented Basel conacts of these units to core; 550 8 6452', 700 the preferred alignment of pyrrhotite, and therefore class these contacts.	Hor. Comp.  Vert Comp.  Logged by  Date  Core: 550/340/Opp # 6391',  thick re-sedimented units f the bases of these units unit is graded, the basel ts and constitutes no more subwacke/argillite portions llaceous clasts (very few) e. subwacke clasts contain es, the presence of grains ry argillaceous matrix is ion of material mislor in t diminishes downward in a several medium and thin ving an overall shredded deposit; the 3 units above d in a local sub-basin.  9 5467', and 770 # 5472', vege, appears to sub-parallel medium to light gray, fine very to irregular, graded, and the terminal of the core of	An	Ŀ	_
Property Sullivan District Western Hole No. DBH6464  Commenced Location Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Bedding/cleavage and sense relative to bedding, to 400/450/Opp 8 5434', 00/300 over 2' in fold 8 6449',  6455.0 - 6482.0 Subwacke/argillite with 10% wacke, light gray, 4 very (the lowest could be numerous thinner units, contacts of are fairly distinct wavy to somewhat irregular, each wacke portion in fairly homogeneous with only rare class than 20% of the overall thickness of the unit, the upper contain an abundance of floating lithic clasts-erg. have distinct outlines though often shredded in appearance disseminated pyrrhotite and alightly ailty composition of the verindicative of complete disaggregation on the verindicative of complete disaggregation and incorporation to the subwacke clasts. Pyrrhotite content this interval. The lowest sedimentation unit comprises beds all containing elongate clasts and shreds and have appearance, this unit may be a submarine alide/elump overs probably croded within the basin and resedimentes Basal conacts of these units to core: 550 8 6462', 700 the preferred alignment of pyrrhotite, and therefore clear these contacts.  6482.0 - 6523.0 General arenite/quartz wacke/wacke/subwacke/ergillite, grained, thick bedded, bed contacts sharp to gradual and with boses generally texturaless forming up to 60% of a beds have an intensely sheared appearance and mose interval peace and mose interval phones are interval phones and page interval phones and page interval phones and page interval phones and mose and mose and mose and mose and mose a	Hor. Comp.  Vert Comp.  Logged by  Date  Core: 550/340/Opp # 6391',  thick re-sedimented units  f the bases of these units unit is graded, the bess!  ts and constitutes no more subwacke/argillite portions llaceous clasts (very few) e, subwacke clasts contain es, the presence of grains ry argillaceous matrix is ion of material similar in t disinishes downward in a several medium and thin ving an overall shredded deposit; the 3 units above d in a local sub-basin.  4 5467', end 770 # 6472', vegs, appears to sub-parallel medium to light grey, fine very to irregular, graded, some beds, the tops of all	An	Ŀ	_
Property Sullivan District Western Hole No. DDH6464  Commenced tocation Tests at  Completed Core Size Corr. Dip  Co-ordinates True Brg.  Objective % Recov.  Bedding/cleavage and sense relative to bedding, to 400/450/Dpp 8 6434', 00/300 over 2' in fold 8 6449'.  6455.0 - 6482.0  (6445.0-6472.0)*  Subwacks/argillite with 10% wacks, light gray, 4 vary (the lowest could be numerous thinner units, contacts of are fairly distinct wavy to somewhat irregular, each wacks portion is fairly homogeneous with only rare class than 20% of the overall thickness of the unit, the upper a contain an abundance of floating lithic clasts-argillite and alightly silty cosposition of the very indicative of complete disaggregation and incorporate composition to the subwacks clasts. Pyrrhotite contain this interval. The lowest addisantation unit comprises bade all containing elongate clasts and shreeds and has appearance, this unit say be a submarine slide/elump were probably eroded within the basin and resedimented Basel conacts of these units to core; 550 8 6452', 700 the preferred alignment of pyrrhotite, and therefore class these contacts.	Hor. Comp.  Vert Comp.  togged by  Date  Core: 550/340/Opp # 6391',  thick re-sedimented units f the bases of these units unit is graded, the basel ts and constitutes no more subwacke/argillite portions llaceous clasts (very faw) e. subwacke clasts contain es, the presence of grains ry argillaceous matrix is ion of material missilar in t diminishes downward in a several medium and thin ving an overall shredded deposit; the 3 units above d in a local sub-basin.  # 5467', and 770 # 5472', vage, appears to sub-parellel medium to light gray, fine way to irregular, graded, some beds, the tops of all mis are alternating wacke	An	Ŀ	_

Drill Hole Reco	rd		CominCO Page 34				
Property Sullivan	Dietrict Kestern	Hole No. DDH6464				1	l
Commenced	Location	Tests at	Hor. Comp.	[			
Completed	Core Size	Corr. Dlp	Vert. Comp.	_]		1	1
Co-ordinates		True Ørg.	Logged by	$\Box$	}	ā	ı
Objective		% Recov.	Date	E	Ó	Selle	Į,
				<u> </u> ō	<u>.</u>		12
Footage Descri	ption			Anai	lysis	Τ	Т
6523.0 - 6594.0	Subvecke/argillite minor wacke	with 2' quartz arenite	6579' - 6582', sedius to	$\top$	Τ	T	T
(6512.0-6582.0)	dark gray, very few indications of	of bedding: may faint ail	ty remnants with disseminated	, [	Г		T
•	pyrrhotite suggest coring was a subwacke/argillite from 6574' - 6				Г	П	Т
	and from 6577' - 6579' was about 5555'. The quartz arenite is fir				Γ	T	Τ
	parting of underlying ergillite						Τ
	es convoluted beds in a subwact festures (clasvage) overprints a						Ţ
	•						Ι
6594.0 - 6629.0 (6582.0-6617.0)	Quartz wacke/quartz arenite/wac fine grained, appears thick to		<del>+</del> - · · ·		$\perp$		Ī
/8387.0-001/10/*	angles are rare, irregular,	sometimes broken and unc	pertain in that some could				I
	be on erratic argillite clasts), bed from 6609 - 6617.5' cont			Ĺ	$\prod$	$\perp$	1
	and is somewhat similar to proce					oxdot	I
	altered, section near 6600' and mottling that is weakly calcared				Г	$\mathbf{T}$	Τ
	•	•			Т	Ţ	T
6629.0 - 6642.0 (6617.0-6629.0)*	Thirteen foot interval from which quite solid, some very frieble wi				Τ	Т	T
(6617.0-0623.07-	•			<u></u>	1	1	T
6642.0 - 6667.0 (6629.0-6654.0)*	Quartz wacke (quartz arenite), as only one bed is present below (				1		1
1002370 2021707	58° to core. Fairly homogeneous				Т	$\Box$	Ţ
	and rare flecks.				Т	$\top$	T
6667.0 - 6684.0	Seventeen feet of which 4 feet w				Ι		T
(6654.0-6671.0)*	minor friable material and minor noted. Argillite portion of this				Т	Τ.	T
	•	•		. $\square$	$oxed{\Box}$	$\prod$	Ι
	• First met of footages as per fo	potage blocks, bracketed i	ootages are true feet.	$\bot$	$oldsymbol{\mathbb{L}}$		Ι
Drill Hole Recor	ď		Cominen Page 35				l
Property Sullivan	Diatrict Western	Hole No. DDH6464	•		l		
Commenced	Location	Tesis at	Hor. Comp.				l
Completed	Core Size	Corr. Olp	Vert. Comp.	<b>-</b>			1
Co-ordinates		True Brg.	Logged by	٦ ١	1	용	1
		% Recoy.	Date	_  <sub>E</sub>	<u>6</u>	Collar Dip	Ŀ
Objective		7 10191		Cleim	E6  -	3	\$ W
ootage Descrip	ption			Ansh	yeis	_	_
iom To		<del></del>		$\dashv$	1	1	†
6684.0 - 6718.0 (6671.0-6704.0)=	Subvacke/argillite minor wacke, a masked by post lithification ted			ļ	$\vdash$	<del> </del>	+
	a disaggregated deposit of white	lensoid subvecke in a arg	illite astrix. Considerable		<del> </del>	<b>†</b>	+
	shearing along cleavage is chare				<del> </del>	<del> </del>	†-
	development. The subverke on	y dianiava verv <i>e</i> orolev	'IDIO DOLLATOR STREETING				
	development. The subvacke now to come: everage is about 500, s		rold patterns. Shearing		⊢	╁	╁╴

Objective

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Objective

Drill Hole Reco	<b>♦</b>		 		
Property SULLIVAN	District Western Hole No. DDH6464	1	Ì		1
Commenced	Location Tests at Hor, Comp.	┨			$\perp$
Completed	Core Size Corr. Dlp Vert. Comp.	-	•		
o-ordinates	Yrue Brg. Logged by	┨_	اً.	g	
bjective	% Recov. Date	Ę	T 870.	S	Ę.
		Anal			<u> </u>
Com To Descr					
6864.5 - 6868.5 (6846.0-6852.0)•	Subwacks/Argillite, wacks, medium to dark gray, thin (with one medium) bedded, bed contacts sharp and flat, 10% thin beds of dark laminite, two small gouge zones near base.			<u> </u>	$\pm$
6868.5 - 6881.0 (6852.0~6864.5)*	grey, fine grained, thick bedded with some thin beds and laminated argillite,	_		+-	1
	bed contacts distinct and wavy, possible flame structures (may be tectonic).	<u> </u>	<del> </del> _	+-	-}-
6881.0 - 6884.0 (6664.5-6867.5)•	Argillite, medium grey, thin bedded and laminated, sheared sub-parallel to bedding which is $77^{\circ}$ to core.				$\pm$
6884.0 - 6887.0 (6867.5-6870.5)•	Wecke, medium and dark gray, 75% is very faint laminate.	-	-	╀	+
6887.0 - 6917.0	Swartz arenite/quartz wacke with 40% wacke/subwacke/argillite, light and medium	$\Box$		Τ	Т
(6870.5-6900.0)*	gray, sedium grained, thick bedded, bed contacts distinct and flat to irregular,		Г	<b>T</b> -	1
	Small cross-bedded zone at 6891', dark wacke leminate 6903-04'. Coarse pyrrhotite in bedding-parallel quartz vein in thin bedded argillite interval 6893 - 94.5'. Bedding to core 77° 8 6904'.		F	1	#
6917.0 - 6926.0	Argillite/Subwacks, medium and dark grey, 60% very thin bedded, contacts sharp	$\vdash$	$\vdash$	+	
	and flat at 75° 8 6924'.	-	$\vdash$	+	-+
6926.0 - 6937.0	Vacke/Subvacke/Argillite, medium to dark grey, medium bedded, bed contacts vague		$\vdash$	╁┈	+
	and distinct and wavy to irregular, some flat. Bedding to core 69° 2 6929'.		Τ		_†
	Wacke, dark grey, even parallel lesinated, upper portion calcareous (light grey),				I
(6915.5-6922.0)•	only a few calcite grains elsewhere. Bedding to core 67° # 6937', 43° # 6939.5'.		Ĺ	_	Ţ
				$\perp$	4
	• First met of footages am per footage blocks, bracketed footages are true feet.	<u> </u>	1	+	4
1	• First set of footages as per footage blocks, bracketed footages are true feet.	L		1	1
1	• First set of footages as per footage blocks, bracketed footages are true feet.	<u> </u>  -	<u></u>	<u> </u>	<u>+</u> 
Drill Hole Reco	Cominco Page 37		<u> </u>	<u> </u>	
Drill Hole Reco	ord •••	<u>                                     </u>		<u> </u>	_
Drill Hole Reco	Cominco Page 37				
Drill Hole Reco	District Western Hole No. DDH6464				
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.			a a	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Olp Verl. Comp.	Lie	Brg.	silar Dip	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Olp Verl. Comp.  True Brg. Logged by  % Recov. Date	Chim	T 879.	Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests st Hor. Comp.  Core Size Corr. Olp Verl. Comp.  True Brg. Logged by		18/0 18/0	Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests st Hor. Comp.  Core Size Corr. Olp Verl. Comp.  True Brg. Logged by  % Recov. Date			Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests st Hor. Comp.  Core Size Corr. Olp Verl. Comp.  True Brg. Logged by  % Recov. Date	An		Colle	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Peac 10 6939.3 - 6946.0 (6922.0-6928.5)	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  True Brg. Logged by  % Recov. Date  ription  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite last 0.5', bed contacts distinct to sharp and flat, beds homogeneous and meny are graded. Bedding to core 55° at 6942'.  Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained,	An		Colle	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Peac 10 6939.3 - 6946.0 (6922.0-6928.5)	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Brg. Logged by  % Recov. Date  Page 37  Wacke/Subwacke/Argillite, sedium grey, sedium bedded with several thin beds of Subwacke/Argillite last 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and sony are graded. Bedding to core 55° at 6942°.  Wacke/(Quertz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and lasinated beds. contacts sharp to distinct, flat,	An		Colle	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Peac 10 6939.3 - 6946.0 (6922.0-6928.5)	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  True Brg. Logged by  % Recov. Date  ription  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite last 0.5', bed contacts distinct to sharp and flat, beds homogeneous and meny are graded. Bedding to core 55° at 6942'.  Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained,	An		Colle	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Peace Footage Peace (6929.5 - 6946.0 (6922.0-6928.5)	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Brg. Logged by  % Recov. Date  **Recov.**  **Packe/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite last 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and many are graded. Bedding to core 55° at 6942°.  **Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Brg. Logged by  % Recov. Date  **Recov.**  **Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and many are graded. Bedding to core 55° at 6942°.  **Wacke/(Quartz Wecke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds, contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.	An		Colle	
Drill Hole Reco	District Western Hole No. DBH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  True Brg. Logged by  **Recov. Date  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and many are graded. Bedding to core 55° at 6942°.  Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 35° with cleavage 60° in opposite sense.  Wacke/Subwacke/Argillite, medium to dark grey, thin bedded with 40% of interval feintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 55° 8 6985°.  Wacke/(Quartz Wacke)/Subwacke/Argillite, medium grey, thick bedded with rare	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Brg. Logged by  % Recov. Date  Page 37  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and meny are graded. Bedding to core 55° at 6942°.  Nacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.  Nacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 59° \$ 6985°.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts sharp to distinct and flat to irregular with offsete and cumps on argillite related to cleavage. One amail overturn at 6891°. Bedding	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  Tyne Brg. Logged by  % Recov. Date  Page 37  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite last 0.5°, bed contacte distinct to sharp and flat, beds homogeneous and many are graded. Bedding to core 55° at 6942°.  Wacke/CQuartz Wecke//Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts sharp to distinct, flat, wavy and irregular (finee?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.  Wacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 59° 8 6985°.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and smdium bed, contacts sharp to distinct and flat to irregular with offsets and cuspo on ergillite related to cleavage. One meal overture at 6891°. Bedding to core: 61° 8 6985°. 45° with cleavage 55° in opposite menne to 6995°.	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Big. Logged by  W. Recov. Date  Wacke/Subwacke/Argillite, medium grey, medium bedded with neveral thin beds of  Subwacke/Argillite lest 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and meny are graded. Bedding to core 550 at 6942°.  Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin end laminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) end tectonic deformation in some ergillite. Bedding to core 550° with cleavage 60° in opposite sense.  Wacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval a faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 550° 6 965°.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts sharp to distinct and flat to irregular with offsets and cuaps on argillite related to cleavage. One amell overturn at 6891°. Bedding to core: 51° 6 6985°. 450 with cleavage 55° in opposite sense to 6995°.  Wacke, dark gray, laminite, bedding to core 53°.	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Site Corr. Dip Vert. Comp.  Time Brg. Logged by  % Recov. Date  Page 37  Wacke/Subwacke/Argillite, sedium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5', bed contacts distinct to sharp and flat, beds homogeneous and seny are graded. Bedding to core 65° at 6942'.  Wacke/(Quartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.  Nackes/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 59° 6 6985'.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts sharp to distinct and flat to irregular with offsets and cumps on argillite related to cleavage. One small overturn at 6891'. Bedding to core: 61° 6 6985', 45° with cleavage 55° in opposite sense to 6995'.  Wacke, dark gray, laminite, bedding to core 53°.	An		Colle	
Drill Hole Reco	Diabrict Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Site Corr. Dip Vert. Comp.  True Brg. Logged by  Recov. Dais  Page 37  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5°, bed contacts distinct to wharp and flat, beds homogeneous and many are graded. Bedding to core 65° at 6942°.  Wacke/CQuertz Wacke/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin end laminated beds, contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.  Nacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 55° 6985′.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts sharp to distinct and flat to irregular with offsets and cusps on argillite related to cleavage. One small overturn at 6891′. Bedding to core: 61° 6 6985′. 45° with cleavage 55° in opposite sense to 6993′.  Wacke, dark gray, laminite, bedding to core 53°.  Quartz erepite/Quartz wacke/Wacke/Subwacke/Argillite, medium to light gray, some bede fine grained, thick bedded with occasional thin bed and laminated argillite/subwacker toos. bed contacts sharp to distinct and use underded argillite/subwacker toos. bed contacts sharp to distinct and use laminated argillite/subwacker toos. bed contacts sharp to distinct and use and use proken.	An		Colle	
Drill Hole Reco	District Nestern Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  True Brg. Logged by  K. Recov. Date  Page 37  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of  Subwacke/Argillite lest 0.5°, bed contacts distinct to wharp and flat, beds homogeneous and meny are greaded. Bedding to core 55° at 6942°.  Wacke/(Cuartz Wacke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and laminated beds. contacts wharp to distinct, flat, wavy and irregular (flaes?) and tectonic deformation in some argillite. Bedding to core 55° at the cleavage 60° in opposite sense.  Wacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts wharp and flat, one small fold. Bedding to core 55° 8 6985°.  Wacke, (Quartz Wacke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts wherp to distinct and flat to irregular with offeste and cuaps on argillite related to cleavage. One anall owerturn at 6891°. Bedding to core: 61° 8 6985°. 45° with cleavage 55° in opposite sense to 6995°.  Wacke, dark gray, laminite, bedding to core 53°.  Guertz eresite/Quartz wacke/Wacke/Subwacke/Argillite, medium to light gray, some beds fine grained, thick bedded with occasional thin bed and laminated argillite/	An		Colle	
Drill Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Cove Size Corr. Olp Vert. Comp.  True Brg. Logged by  N. Recov. Date  Wacke/Subwacke/Argillite, medium grey, medium bedded with several thin beds of Subwacke/Argillite lest 0.5°, bed contacts distinct to sharp and flat, beds homogeneous and meny are graded. Bedding to core 65° at 6942°.  Wacke/(Quartz Wecke)/Subwacke/Argillite, light gray, one bed is fine grained, thick bedded, rare thin and leminated beds. contacts sharp to distinct, flat, wavy and irregular (flame?) and tectonic deformation in some argillite. Bedding to core 55° with cleavage 60° in opposite sense.  Wacke/Subwacke/Argillite, medium to dark gray, thin bedded with 40% of interval faintly and thinly leminated, bed contacts sharp and flat, one small fold. Bedding to core 59° 8 6985°.  Wacke, (Quartz Wecke)/Subwacke/Argillite, medium gray, thick bedded with rare thin and medium bed, contacts sharp to distinct and flat to irregular with offsets and cuaps on ergillite related to cleavage. One amall overturn at 6991°. Bedding to core: 61° 8 6985°. 45° with cleavage 55° in opposite sense to 6995°.  Wacke, dark gray, leminite, bedding to core 53°.  Guertz eresite/Quartz wacke/Wacke/Subwacke/Argillite, medium to light gray, some beds fine grained, thick bedded with coccasional thin bed and leminated argillite/ subwacke tops, bed contects sharp to distinct and wavelly flat. some broken. Argilloseous clasts noted in thin bed and Tol8°. Bedding to core 40° (cleavage.	An		Colle	

\* First, set of footages as per footage blooks, branketed footages are true fuel.

Drill Hole Reco	rd Cominco Page 38			1	ł
5 1 1.VAN	District Western Hole Ng. DDH6464	ĺ	[	-	1
Property SULLIVAN	Old Control of the Co	-		1	ł
Commenced	Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.	7		-	
Co-ordinates	True Brg. Logged by	7		ā	i
Objective	% Recov. Date	Claim	È	Coller	<u>ن</u> و ا
					<u>\$</u>
rom To	iption	Anal	J.	$\perp$	T
7032.0 - 7076.0	Wacke/(Quartz Wacke)/8 little Quartz Arenite/Subwacke/Argillite, medium grey, thick bedded with rere thin laminites, entering major fold as bedding to core is 35° # 7034', 20° # 7044', 10°, 45°, 0° and 0.T. at 7065 - 7066', 30° with cleavage	L			-
	of 55° # 7070'.	<b> </b> _	<del> </del> _	<del> </del>	4
7076.0 - 7130.0 (7056.5-7109.5)	to thick beds. Wispy bedding to core in an ergillite interval at 7096 is at 250 to sub-parallel to core with cleavage 700 in same sense indicating part of	F	_	+	+
	this interval is overturned. Bedding/ Cleavage and mense: 450/230/opp at 7110', 250/730/sense at 7113' (possibly clast or irregular detached limb).	-	F	$\mp$	-
7130.0 - 7202.0 (7109.5-7160.5)			✝	†	1
	7183'. Bedding /cleavage and sense: 40°-0°/63°/opp. in detached thin interval of argillite @ 7183'. 40° @ 7189' (wavy), 35° @ 7192'. 65° very irregular and		$\vdash$	1	T
	beneath which is an argillite clast or detached layer dipping in the opposite			$oxed{oxed}$	Τ
	sease at 22° at 7195'. Hinor chlorite alteration and remobilized(f) pyrrhotite from 7199.0 - 7202.0'.			$\perp$	I
				$\perp$	1
7202.0 - 7239.0 (7180.5-7217.0)	veins and veinlets. Intensely altered sediment 7202 - 7204' and apparent sediment	$\perp$	丄	┷	1
	contamination, indicated by presence of biotite, 7204 - 7206' mask the upper contact, however contact also masked, the gabbro is chloritized and biotitized from 7227	<u> </u>	<u> </u>	╄-	- -
	to 7239' however some igneous texture recognizable. Minor commes pyrrhotite at		╀	╀	╀
	7213'.	$\vdash$	╫	+-	╬
7239.0 - 7243.0	Altared sediment, cut by irregular quartz and calcite veinlets, minor biotite and chlorite.	-	+	+	╅
1 (77)7.0-7221.0)4		-	✝	$\top$	十
(7217.0-7221.0)			<del>1</del> —	+	$^{+}$
(7217.0-7221.0)			L.		
	• First set of footages as per footage blocks, bracketed footages are true feet		<u>†                                    </u>	<del> </del> -	<u></u>
Drill Hole Reco	rd Comingo Page 39			<u>+</u> 	
Drill Hole Reco	rd Comingo Page 39			<u>+</u>	
Drill Hole Reco	rd Comingo Page 39  District Mestern Hole No. DDH6454			1	
Driff Hole Reco	Comingo Page 39  District Western Hole No. DDH6464  Location Tests at Hor. Comp.			åä	
Drill Hole Reco	District Western Hole No. BDH6464  Location Tests at Hor. Comp.  Core Size Corr. Olp Vert. Comp.	injun	gre.	ollar Dip	
Drill Hole Recol Property SULLIYAN Commenced Completed Co-ordinates Objective	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oxp Vert. Comp.  True Brg. Logged by  % Recov. Date	Cierm	940	i j	Elev.
Driff Hole Reco	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oxp Vert. Comp.  True Brg. Logged by  % Recov. Date	14.	940	i j	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From To 7243.0 - 7248.5	District Western Hole No. BDH6464  Location Tests at Hor. Comp.  Core Size Corr. Otp Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated,	14.	940	i j	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From To 7243.0 - 7248.5	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oth Vert. Comp.  True Brg. Logged by  Recov. Date	14.	940	i j	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From To 7243.0 - 7248.5	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oth Vert. Comp.  True Brg. Logged by  Recov. Date  Subwecke/Argillite. some Wacke, medium to light grey, rerely dark, lesinated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding	14.	940	i j	Eller.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From To 7243.0 - 7248.5	District Western Hole No. BDH6464  Location Tests at Hor. Comp.  Core Size Corr. Olp Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rerely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts where to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: Onland Post of 256' - 7275', 550-750 7275 - 7282', abundant small folds 0-900 7282 - 7291', 400-650 7291-7307', 00-200 7307	14.	940	i j	E 88.
Property SULLIVAN Commenced Completed Co-ordinales Objective Foolage From 16 7243.0 - 7248.5	District Western Hole No. BDH6464  Location Tests at Hor. Comp.  Core Size Corr. Otp Vert. Comp.  True Brg. Logged by  **Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rerely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts where to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: 0°±20° 7256′ - 7275′, 55°-75° 7275′ - 7282′, abundant small folds 0-90° 7262 - 7291′. 40°-65° 7291-7307′. 0°±20° 7307′ - 7314′, irregular from 65°-0°-75° to 7348′. Numerous offsets noted on cleavage	14.	940	i j	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Footage 7243.0 - 7248.5 (7221.0-7324.5)	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Otp Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts where to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: 0°-20°-7256' - 7275', 550-759 7275' - 7282', abundant small folds 0-90° 7282 - 7291', 40°-65° 7291-7307', 0°-20° 7307 - 7314', irregular from 65°-0°-73° to 7348'. Numerous offsets noted on cleavage planes throughout the interval.	14.	940	i j	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage Property Footage	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Op Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rerely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts where to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthly sections where bedding is sub-parallel to core. Bedding to core: 0°-20° 7256' - 7275', \$50-750 7275 - 7282', abundant swall folds 0-90° 7262 - 7291', 40°-650 7291-7307', 0°-20° 7307 - 7314', irregular from 65°-0°-75° to 7348'. Numerous offsets noted on cleavage planes throughout the interval.  Quartz wacke, minor subvacke/argillite, medium grey, some fine grained bads, thick bedded, contacts wharp and flat, some possible flames or wimps. Several irregular	14.	940	i j	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage Property Footage Property Property  7243.0 - 7248.5  (7221.0-7324.5) -	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacks/Argillits, some Wacks, medium to light grey, rarely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts sharp to vagus. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: 00-200 7256' - 7275', 350-730 7275 - 7282', abundant small folds 0-900 7262 - 7291', 400-650 7291-7307', 00-200 7307 - 7314', irregular from 650-00-750 to 7348'. Numerous offsets noted on cleavage planes throughout the interval.  Guertz wacks, sinor subwacks/argillite, medium grey, some fine grained beds, thick bedded, contacts sharp and flat, some possible flames or wisps. Saveral irregular small quartz weine with minor chlorite and calcite. Small gouge zone cuts core	14.	940	i j	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage   Description   Te   7243.0 - 7248.5   (7221.0-7324.5) =	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Op Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rerely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts where to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthly sections where bedding is sub-parallel to core. Bedding to core: 0°-20° 7256' - 7275', \$50-750 7275 - 7282', abundant swall folds 0-90° 7262 - 7291', 40°-650 7291-7307', 0°-20° 7307 - 7314', irregular from 65°-0°-75° to 7348'. Numerous offsets noted on cleavage planes throughout the interval.  Quartz wacke, minor subvacke/argillite, medium grey, some fine grained bads, thick bedded, contacts wharp and flat, some possible flames or wimps. Several irregular	14.	940	i j	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage Percent 16  7243.0 - 7248.5  (7221.0-7324.5) -	District Mestern Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Dip Verl. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated, thin and medium bedded, however much of coring is parallel to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: Do-200 7256' - 7273', 350-750 7273 - 7262', abundant swall folds 0-900 7282 - 7291', 400-550 7291-7307', 00-200 7307 - 7314', irregular from 650-00-750 to 7348', Numerous offsets noted on cleavage planes throughout the interval.  Quartz wacke, sinor subwacke/argillite, medium grey, some fine grained bads, thick bedded, contacts sharp and flat, some possible flames or wimps. Several irregular assall querts weims with sinor chlorite and calcite. Small gouge zone cuts core at 270 at 7361'. Redding to core 680 (probably in a fold) at 7349', 300 to 560 with cleavage 280 in opposite sense at 7361.5', although core is good no contacts until 7380' (fold?), 610 8 7380', 570 with what appears to be a complete reversal in dip 10 ca below 8 7391', 390 8 7395', 680 8 7404'.	14.	940	i j	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage   Description   To    7243.0 - 7248.5    (7221.0-7324.5) -  7348.5 - 7405.0    (7324.5-7380.0) -	District Western Hole No. DDH6464  Location Tests at How. Comp.  Core Size Corr. Olp Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts wharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: O-200 7256' - 7275', 350-730 7275 - 7282', abundant small folds 0-900 7282 - 7291', 400-650 7291-7307', 00-200 7307 - 7314', irregular from 650-00-730 to 7348'. Numerous offsets noted on cleavage planess throughout the interval.  Quartz wacke, sinor subwacke/argillite, medium grey, some fine grained bads, thick bedded, contacts where and flat, some possible flames or wimps. Several irregular assail quartz value with sinor chlorite and calcite. Small gouge zone cuts core at 270 at 7361'. Bedding to core 680 (probably in a fold) at 7349', 300 to 560 with cleavage 280 in opposite sense at 7361.5', although core is good no contacts until 7380' (fold?), 510 8 7380', 570 with what appears to be a complete reversal in dip 10 cm below 8 7391', 390 8 7396', 680 8 7404'.  Quartz wocke, wocke with 40% subwacke/argillite, medium grey, medium and thin bedded, bed contacts sharp and flat to wavy. Bedding/cleavage and sense to bedding	14.	940	i j	
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage   Description   To    7243.0 - 7248.5    (7221.0-7324.5) -  7348.5 - 7405.0    (7324.5-7380.0) -	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oxp Vert. Comp.  True Brg. Logged by % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rerely dark, leminated, thin and medium bedded, however much of corring is parelled to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-paralled to core. Bedding to core: O*200 7256* - 7275*, 350-750 7275 - 7325*, abundant small folde O-900 7282 - 7291*, 400-650 7291-7307*, 0*200 7307 - 7314*, irregular from 650-00-750 to 7348*. Numerous offsets noted on cleavage planes throughout the interval.  Quartz wacke, sinor subwacke/argillite, medium grey, some fine grained bads, thick bedded, contacts sharp and flat, some possible flames or wimps. Several irregular assall quartz venew with minor chlorite and calcite. Small going zone cuts core at 270 at 7361*. Bedding to core 680* (probably in a fold) at 7349*, 300* to 560* with cleavage 280* in opposite sense at 7361.5*, although core is good no contacts until 7380* (fold?), 610* 8 7380*, 570* with what appears to be a complete reversal in dip 10 cm below 8 7391*, 390* 8 7395*, 680* 8 7404*.  Quartz weake, wacke with 40% subwacke/ergillite, medium grey, medium and thin	14.	940	i j	E100.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage   Description   To   7243.0 - 7248.5   7243.0 - 7248.5   7348.5 - 7405.0   (7324.5-7380.0) •	District Western Mole No. DDH6464  Location Tests at How. Comp.  Core Size Corr. Oxp Vert. Comp.  True Brg. Longed by  % Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated, thin and medium bedded, however such of coring is parallel to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core; O*200* 7256' - 7275', 550-750 7275 - 7282', abundant small folds O*900* 7282 - 7291', 400-650* 7291-7307', 00*200* 7307 - 7314', irregular from 650-00* 7200* 7308'. Numerous offsets noted on cleavage planes throughout the interval.  Duartz wacke, minor subwacke/argillite, medium grey, some fine grained bads, thick bedded, contacts sharp and flat, some possible flames or wisps. Several irregular small quentz veriew with minor chlorite and calcite. Small gouge zone cuts core at 270* at 7361'. Bedding to core 680* (probably in a fold) at 7349', 300* to 560* with cleavage 280* in apposite sense at 7361.5', although core is good no contacts until 7380' (fold), 610* 8 7380', 570* with what appears to be a complete reversal in dip 10 ca below 8 7391', 390* 8 7395', 680* 8 7404'.  Quartz wacke, wecke with 40% subwacke/argillite, medium grey, medium and thin bedded, bed contacts sharp and flat to wavy. Bedding/cleavage and sense to bedding to core 680*680* opp. at 7415'.	14.	940	i j	E MAY.
Driff Hole Recompression Sullivan Commenced Completed Co-ordinates Objective Footage Provided Transport To Tr	District Mestern Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oth Vert. Comp.  True Brg. Logged by  % Recov. Date  Subwacke/Argillite, some Wacke, sedius to light grey, rerely dark, leminated, thin and sedius bedded, however such of coring is parallel to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturnal intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: 0°-20° 7256' - 7275', \$50-750' 7275' - 7285', abundant small folds 0-90° 7282 - 7291', 40°-550' 7291-300', 0°-200' 7307' - 7314', irragular from 650-00-750' to 7348'. Numerous offsets noted on cleavage planes throughout the interval.  Quartz wacke, sinor subwacke/argillite, sedius grey, some fine grained bads, thick bedded, contacts sharp and flat, some possible flames or wisps. Several irregular small quartz veines with sinor chlorite and calcite. Small gauge zone cuts core at 27° at 7361'. Bedding to core 680' (probably in a fold) at 7349', 30° to 560' with cleavage 28° in opposite sense at 7361.5', although core is good no contacts until 7380' (fold'), 61° 8 7380', 570' with what appears to be a complete reversal in dip 10 ca below 8 7391', 39° 8 7396', 68° 8 7404'.  Quartz wacke, wacke with 40% subwacke/ergillite, medium grey, medium and thin bedded, bed contacts aherp and flat to wavy. Bedding/cleavage and sense to bedding to core 580'680' opp. at 7415'.	14.	940	i j	Elev.
Driff Hole Recompression Sullivan Commenced Completed Co-ordinates Objective Footage Provided Transport To Tr	District Western Hole No. DDH6464  Location Tests at Hor. Comp.  Core Size Corr. Oth Vert. Comp.  True Brg. Logged by  S. Recov. Date  Subwacke/Argillite, some Wacke, medium to light grey, rarely dark, leminated, thin and medium bedded, however much of coring in parallel to bedding, bed contacts sharp to vague. Intensely folded with abundant pyrrhotite cleavage indicating only rare overturned intervals however there are lengthy sections where bedding is sub-parallel to core. Bedding to core: O*220* 7256* - 7275*, 350-750* 7275 - 7282*, abundant small folds 0*90* 7282 - 7291*, 400-65* 7291-7307*, 0*220* 7307 - 7314*, irregular from 650-00*-790* to 7348*. Numerous offsets noted on cleavage planes throughout the interval.  Duartx wacke, siror subwacke/argillite, sedium grey, some fine grained bads, thick bedded, contacts sharp and flat, some possible flames or wisps. Several irregular small quartz veine with minor chlorite and calcite. Small gouge zone cuts core at 270* at 7361*. Bedding to core 680* (probably in a fold) at 7349*, 300* to 560* with cleavage 280* in opposite sense at 7361.5*, although core is good no contacts until 7380* (fold?), 610* 8 7380*, 570* with what appears to be a complete reversal in dip 10 cm below 8 7391*, 390 8 7396*, 680* 8 7404*.  Quartx wacke, wacke with 40% subwacke/argillite, medium grey, medium and thin bedded, bed contacts sharp and flat to wavy. Bedding/cleavage and sense to bedding to core 680*680* opp. at 7415*.	14.	940	i j	TE PAN

\* First set of footages as per footage blocks, bracketed footages are true feet.

Property SULLIVAN	District Western	Hole No. DDK6464	<u></u>	i		
Commenced	Location	Tosts at	Hor. Comp.			1
Completed	Core Size	Corr. Dip	Vert. Comp.		ļ	ا ۱
Co-ordinates		True Brg.	Logged by		١.	흅
Objective		% Recov.	Date		f Brg	3
		· <u></u>			l- alvais	19 E
From To	lon				Ĭ	
	00-400 (convoluted) 9 7443', 130	B 7446'. 439 B 7458	Y. Note small offsate			$\coprod$
	cleavage where bedding and cleav			L		
7439.3 - 7466.0	Subwacke/argillite, dark grey,	thin, medium? bedded en	nd laminated. about 30% (e	ost L		Ш
(7434.0-7440.0)+	of upper part of interval) is sh	redded into very fine o	lasts by post lithificat	ion		
	tectonic activity with slight sh					$\square$
	Quartz arenite/quartz wacke 6					
(7440,0-7497.5) •	medium and fine grained, thick be no reliable bed contacts above	edded, bed contacts veg	que (often broken) to sho th shout 6' lost 7440-741	irp.	$\perp$	
į	some core in this interval appea	rs crushed with minor o	jouge, one slickenside sut	face	floor	Ш
	with pyrrhotite costing. Core of core loss 7518.5 - 7521.0.	also broken with some	gouge recovered and 2 in the second control of the second control	out	$\perp$	
	of core loss /518.5 - /521.0. shredded), 570 @ 7523'.	begging to core: 34	- 1 /310 : 60- 1 /31/		Т	
	Vecke/subwacke/argillite, dark	and madium army th	in and madium hadded of	agust		
(7497.5-7503.0) •	50% is dark grey thinly laminate	d wacks. Bedding to co	ore 56° 9 7525′, 60° 0 752	27'.	$\top$	$\Box$
	28° with cleavage 60° opposite	to bedding at 7529',	<sup>750</sup> in opposite sense to 1	thet		$\Box$
i	at 7529' @ 7530'.			<u> </u>	1	
	Quartz granite, very calcareous, Bedding to core 65° € 7533.5'.	biotitic, medium gre	ey, medium send, single l	ed.	7	$\Box$
1	-			<u> </u> -	_	1
	Quartz orenite/quartz wacke/wa medium near bases) grained, thi				7	
	ere graded with argillite tops u	p to 20 cm thick. Only	y portions of beds are wer	skly [	1	
}	calcareous; one strongly calcare fillings. Bedding/cleavage an	ous zone appears to bu	e a series of vague tend 2/350 one. at 7536.5' *'	note	1	1-1
	7543', 50° # 7546'.	d maybe to cote. en			1	$\Box$
					$\top$	$\top$
,	* First met of footages as per f	ootage blocks, brackete	ed footages are true feet.	. • -	1	1-1

Drill Hole Recor		Male No. DDH6464	Common Page 41				
Property SULLIYAN	District Western	11010 140:	Hor, Comp.	- 1		1 1	ı
Commenced	Location	Tests at Corr. Dip	Vert. Comp.	$\dashv$		1	١
Completed	Core Size	True Brg.	Logged by	$\dashv$	1	οįο	١
Objective		% Recov.	Date	- E	7 Brg.	l⊾ i	757
Factage Descrip	plion				ilysta		F
7546.0 - 7551.0 (7519.0-7524.0)*	Quartz grenite/quartz wacke/wa to medium bedded and leminated, Bedding to core 0°-63° at 7549.	contacts sharp and flat to		F	+	<del> -</del>	-
7551.0 - 7593.0 (7524.0-7565.0)*	Quartz grenite/quartz wacke/(wa and weakly calcareous sections have altered appearance), fine and flat to irregular, beds are clasts noted in wacke at 7357', and a shall sudstone dike def	with one strongly calcareou- greined, thick bedded, co- graded, a few have interna Argillaceous interval 75	s section 7589 - 7591.5'(sany ntects sharp to distinct 1 leminations. Argillaceous 63 - 7565' is convoluted	, <u> </u>			-
	7570'. Hinor brecolation and a to core 48° 8 7571' (arratic 7587'.	hearing (post lithification	> noted at 7575'. Bedding		-	-	<del> </del>
7593.0 - 7599.0 (7565.0-7571.0)•	Argillite/subwacke/wacke/quartz bed contacts sharp, flat (in so		o (rarely) medium bedded,		‡	#	t
7599.0 - 7618.0 (7571.0-7590.0)•	Quertz wacke/wacke (argillite and medium bedded. One argill 7608.0'. Increasingly argillac	ite/subwacke thin bedded				E	<u>†</u>
7618.0 - 7625.0 (7590.0-7596.5)*	Vacke/aubwacks/argillite, medi segments are laminated, bed con graded. Three beds contain arg	tacts are sharp and flat.	Some beds appear uniformly	-	+	+	+
7625.0 - 7628.0 (7596.5-7599.5)•	Quertz arenite, (quertz wack and madium bedded, only the thi	<pre>ce&gt; argillite), light ck bed is (very) calcareous</pre>	gray, fine grained, thick		+		<u>†</u>
				$\vdash$	4	┩╾-	-
1					- 1	ı	1

L			<b>~~</b>	1 1	_ i	. I	- 1
Drill Hole Reco	ra		Comince Page 42			1	- [
Property SULLIVAN	Diatrict Vestern	Hole No. DDH6454	· · ·	- 1 1	ll	.	١
Commenced	Location	Tests at	Hor. Comp.	<u>-</u> i ∣	{		l
Completed	Core Size	Corr. Dip	Vert. Comp.	İ		ا ۱	
o-ordinates		True Brg.	Logged by	—-	_	dig .	
bjective		% Recov.	Date	Ctain	Brg.	Collar	Elev.
				Analy		0 1	
potage Descr	iption					$\vdash$	_
7628.0 - 7634.5 (7599.5-7606.0)•	Wacke/subwacke/argillite, medium undulating to indistinct (broke 7633 - 7694'.	grey, medium bedded, n). Fault with 1 cm of	contacts from sherp and gouge at 7634', brecciated				_
7634.5 - 7637.0 (7606.0-7608.5)*	Quartz wacks, single thick bed,	minor elteration (bleachi	ing/calcite).	<u> </u>			
7637.0 - 7645.5	Wacke/subwacke/ergillite, some b	eds verge on quertz was	ke, light to medium gray.		$\vdash$		_
	medium and thin bedded, contacts	flat to wavy, most beds	have sharp contacts between	1	-		
	the wacke and argillite top. A surface and a few have weak C	alcareous portions. The	25 cm bed between 7643.5			<b> </b>	-
1	- 7644.5' contains numerous el the top argillaceous portion i	ongate ergillite rip-upa	throughout the wacke and				_
	57° to core and is offset on sma						
7645.5 - 7649.5	Single graded bed, wacke/quartz	wacke/quartz arenite. w	with weakly to moderately		L.		_
(7617.0-7621.0)*		ine grained, broken basal			_	-	
7649.5 - 7651.0							
(7621.0-7622.0)*	sharp and flat. Pyrrhotite ac at 70° to core in opposite sense						
7651.0 - 7652.8	One, possibly two beds, quartz w	ecke, calcereous, light o	erev.		L	_	_
(7622.0-7624.0)		, , , , , , , , , , , , , , , , , , , ,			$oxed{oxed}$	<u> </u>	
7652.8 - 7654.2		bedded, medium gray, the	wacke is faintly lasinated	<u> </u>	ļ	ļ	١.,
(7624.0-7625.4)*	at 68° to core.			-	⊢	$\vdash$	_
					<del> </del>	╁╼–	
	• First set of footages as per f	ootage blocks, bracketed	footeges are true feet.	. -			_
Drill Hole Reco		ootage blocks, bracketed	footeges are true feet.	. =			 
Drill Hole Reco	ord		•				<u> </u>
Drill Hole Reco	District Western	Hole No. DDH6464	Coming Page 43				
Drill Hole Reco	District Western Location	Hole No. DDH6464 Teats at	Comined Page 43  Hor, Comp.				
Drill Hole Reco	District Western	Hole No. DDH6464 Teats at Corr. Dlp	Comp.  Hor. Comp.  Vert. Comp.			46	
Drill Hole Reco	District Western Location	Hole No. DDH6464 Tests at Corr. Dlp True Brg.	Hor. Comp.  Verl. Comp. Logged by		.60	010 Is	
Drill Hole Reco	District Western Location	Hole No. DDH6464 Teats at Corr. Dlp	Comp.  Hor. Comp.  Vert. Comp.	Claim	7 Brg.		Elev.
Drill Hole Reco	District Western Location	Hole No. DDH6464 Tests at Corr. Dlp True Brg.	Hor. Comp.  Verl. Comp. Logged by		t Bro.		Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage To Description	District Western Location Core Size	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.	Hor. Comp.  Verl. Comp. Logged by Date		•		
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Description To 7654.2 - 7656.0	District Western Location Core Size  ription  Quartz grades into dark leminated	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.	Coming Page 43  Hor, Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top		•		Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Description To 7654.2 - 7656.0	District Western Location Core Size	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.	Coming Page 43  Hor, Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top		•		Eller,
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Description To 7654.2 - 7656.0 (7625.4-7627.2) •	District Western Location Core Size  District Western Location Core Size  District Western Location Core Size  District Western Location Core Size  District Western Location Core Size  District Western Location Core Size  District Western Location Location Location Core Size  District Western Location Locati	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  S. very calcareous, light i wacks. Quartz grains at  contacts diffuse to shar	Hor, Comp.  Verl. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear		•		Eller,
Property SULL I VAN Commenced Completed Co-ordinates Objective  Footage From To 7654.2 - 7656.0 (7625.4-7627.2)*	District Western Location Core Size  Tiption  Quartz arenite or quartz wacks 15 cm grades into dark leminated to heve a pale blue cast.  Wacks, dark grey, thin bedded, is faintly laminated at 75° to compare the second control of the second co	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  P. very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharpore.	Hor. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear p and flat, 50k of interval		•		- CENT
Property SULLIVAN  Commenced Completed Co-ordinates Objective  Footage Provided 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7682.5	District Western Location Core Size  Tiption  Quartz granite or quartz wacke 15 cm grades into dark leminated to have a pale blue cast.  Wacke, dark grey, thin bedded, is faintly laminated at 75° to concept to the co	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  P. very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharpore.  s/argillite 15%, medium to	Hor, Comp.  Verl. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear p and flat, 50k of interval		•		- CEPAN
Drill Hole Reco Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Provi To 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7682.5	District Western  Location  Core Size  District Western  Location  Core Size  District Western   Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  D. very calcareous, light is wacks. Quartz grains at contacts diffuse to sharp or contacts sharp and flat is 7657.8 and 7661.0° at	Hor, Comp.  Vert Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  to light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats		•		- '- '- '- '- '- '- '- '- '- '- '- '- '-	
Property SULL I VAN  Commenced Completed Co-ordinates Objective  Footage   Descript   7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7682.5	District Western  Location  Core Size  Core Size  Tiption  Quartz grades into dark leminated to have a pale blue cast.  Wacks, dark grey, thin bedded, is faintly laminated at 75° to contact wacks with a few sedium beds, bad contacted and faulted. Between and detached thin bed tops; the of persoontemporaneous movement	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  S. very calcareous, light i wacks. Quartz grains at contacts diffuse to sharp ore.  S/argillite 15%, medium to contacts sharp and flat in 7657.8 and 7661.0° as latter are caused by lot. One thick quartz are	Hor. Comp.  Verl. Comp.  Logged by  Date  t grey, medium grained, top re clear white end appear  p and flat, 50k of interval  o light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats w engle shearing indicative enite 7671.0 - 7674.0' has		•		Eller.
Property SULL I VAN  Commenced Completed Co-ordinates Objective  Footage   Descript   7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7682.5	District Western Location Core Size  Tiption  Quartz arenite or quartz wacke 13 cm grades into dark laminated to have a pale blue cast.  Wacke, dark grey, thin bedded, is faintly laminated at 75° to courtz wacke/wacke 85%, aubwacke with a few sedium beds, bad a contorted and faulted. Between and detached thin bed tops; the	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  S. very calcareous, light i wacks. Quartz grains at contacts diffuse to sharp ore.  S/argillite 15%, medium to contacts sharp and flat in 7657.8 and 7661.0° as latter are caused by lot. One thick quartz are	Hor. Comp.  Verl. Comp.  Logged by  Date  t grey, medium grained, top re clear white end appear  p and flat, 50k of interval  o light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats w engle shearing indicative enite 7671.0 - 7674.0' has		•		The state of the s
Drill Hole Reco Property SULLIVAN Commenced Completed Co-ordinates Objective  Postage To 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7662.5 (7628.9-7653.2) =	District Western Location Core Size  Togration  Quartz arenite or quartz wecke 15 cm grades into dark leminated to have a pale blue cast.  Wache, dark grey, thin bedded, is faintly laminated at 75° to courtz wacke/wacke 85%, aubwacke with a few sedium beds, bad constorted and faulted. Between and deteched thin bed tops; the of penecontemporaneous movement a 15 cm celcareous Bound 8 lasin Bedding to core 75° € 7674'.	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  P. Very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharp fore.  Pargillite 15%, medium to contacts sharp and flat 7657.8 and 7661.0° at a latter are caused by loo contact discontacts and recontacts sharp latter are caused by loo contacts and 7661.0° at a latter are caused by loo contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts and recontacts are contacts and recontacts are contacts and recontacts and recontacts are contacts and recontacts and recontacts and recontacts and recontacts are contacts and recontacts are contacts and recontacts are contacts and recontacts are recontacts and recontacts and recontacts are contacts and recontacts are recontacts and recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontacts are recontacts and recontacts are contacts and recontact are recontacts and recontact are contacts and recontact are recontacts and recontact are contacts and recontact are recontact and recontact are recontact.	Hor. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear p and flat, 50k of interval to light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats w angle shearing indicative enite 7671.0 - 7674.0' hes tion patches are calcareous.	Ane	•		Elev.
Drill Hole Reco Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Description To 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7662.5 (7628.9-7653.2) =	District Western  Location  Core Size  Core Size  District Western  Location  Core Size  District Western  Core Size  District Western  Core Size  District Western  Core Size  District Western  District Western  Core Size  District Western  Core Size  District Western  Core Size  District Western  Core Size  District Western  Core Apale blue cast.  Wacke, dark grey, thin bedded, is faintly laminsted at 75° to constantly laminsted at 75° to constantly laminsted at 75° to constantly district Western  Core Core Tore Core Tore  Core Core Tore  Core Western  Co	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  % Recov.  contacts diffuse to sharpore.  sergillite 15%, medium to contacts sharp and flat to 7657.8 and 7661.0° at latter are caused by low latter are caused by	Hor. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  o light grey, thick bedded to way. Some contacts are re abundant rip-up clasts w angle shearing indicative enite 7671.0 - 7674.0' hee tion patches are calcareous.  rgillite, rare week calcareous interval for 25 ca near	Ane	•		Elev.
Drill Hole Reco Property SULLIVAN Commenced Completed Co-ordinates Objective From To 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7662.5 (7628.9-7653.2) =	District Western  Location  Core Size  Core Size  Core Size  Core Size  District Western  Location  Core Size	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  P. very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharp core.  s/argilite 15%, sedius to 7657.8 and 7661.0° at s latter are caused by lot. One thick quartz are rated base. A few alterate  or wacks. Some subwacks/at bed has a very calcareous and very thick bedded w	Hor. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  to light grey, thick bedded to wavy. Some contacts are re abundant rip-up clasts w angle shearing indicative enite 7671.0 - 7674.0' has tion patches are calcareous,  regillite, rare weak calcareous us interval for 25 cm near ith clusters of thin bads	Ane	•		(2) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A
Drill Hole Reco Property SULLIVAN Commenced Completed Co-ordinates Objective Form To 7654.2 - 7656.0 (7625.4-7627.2) = 7656.0 - 7657.8 (7627.2-7628.9) = 7657.8 - 7662.5 (7628.9-7653.2) =	District Western  Location  Core Size  Core Size  Core Size  Core Size  District Western  Location  Core Size	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  S. very calcareous, light i wacks, Quartz grains at  contacts diffuse to sharp fore.  S/argillite 15%, medium to contacts sharp and flet to 7657.8 and 7661.0° at so latter are caused by low 1. One thick quartz are rated base. A few alterat  or wacks, some subwacks/so bed has a very colcareous and very thick bedded w. 0°, 7719.0 - 7720.0°, A merally sharp and flet	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  o light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats w angle shearing indicative anite 7671.0 - 7674.0' has tion patches are calcareous,  rgillite, rare weak calcareous us interval for 25 cm near ith clusters of thin bads few beds are predominantly to undulating, sost beds	Ane	•		Elev.
Drill Hole Reco	District Western Location Core Size  Core Size  Core Size  Core Size  District Western Location Core Size  Cor	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  P. very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharp cortects sharp and flet to 7657.8 and 7661.0° at so latter are caused by lost. One thick quartz are rated base. A few alteration of the cortects and the cortects are per wacks, some subwacks/st bed has a very calcareous and very thick bedded w. 0°, 7719.0 - 7720.0°, A merally sharp and flet Feint Bouns B less noted to 7706° is dark grey and is	Hor. Comp.  Vert Comp.  Vert Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  to light grey, thick bedded to way. Some contacts are re abundant rip-up clasts w angle shearing indicative enite 7671.0 - 7674.0' has tion patches are calcareous,  rgillite, rare weak calcareous us interval for 25 cm near ith clusters of thin bada few beds are predominantly to undulating, sost beds near base of top very thick cut by a network of fine	Ane	•		Elev
Drill Hole Reco	District Western  Location  Core Size  Core	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  2. very calcareous, light i wacke. Quartz grains at  contacts diffuse to sharp fore.  2. dargillite 15%, medium to contacts sharp and flet contacts sharp and flet contacts and 7661.0° at a latter are caused by loo c. One thick quartz are noted base. A few alterat  or wacke, some subwacke/en and very thick bedded w cor, 7719.0 - 7720.0°. A merally sharp and flet raint Bound B leas noted in careous). A few intense	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  o light grey, thick bedded to way. Some contacts are re abundant rip-up cleats w angle shearing indicative enite 7671.0 - 7674.0' hes tion patches are calcareous.  rgillite, rare week calcareous interval for 25 cm near ith clusterm of thin beds few beds are predominantly to undulating, most beds near base of top very thick cut by a network of fine ly bleached zones (eg. 7717	Ane	•		Elev
Drill Hole Reco	District Western  Location  Core Size  Core Size  Core Size  Core Size  District Western  Location  Core Size  Core Tore Size  Core Within beds, the first the base, fine grained, thick are the base, fine grained, thick are the base, fine grained, thick are the base, fine grained, thick are the base, fine grained, thick are the base, fine grained, thick are the base, fine grained, thick are beds one quartz arenite 7700 - 7711  Wacke and subwacke, contacts general Core Size Size Size Size Size Size Size Siz	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  S. very calcareous, light i wacks. Quartz grains at  contacts diffuse to sharp fore.  Sergillite 15%, sedium to contacts sharp and flet if 7657.8 and 7661.0° at so latter are caused by lon i. One thick quartz are sated base. A few alterat  or wacks. some subvacks/at sed has a very colcareous and very thick badded w. or, 7719.0 - 7720.0°, A nerally sharp and flet faint Bound B less noted if 7706° is dark grey and is careous). A few intense casociated with fine	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  o light grey, thick bedded to way. Some contacts are re abundant rip-up cleats w angle shearing indicative enite 7671.0 - 7674.0' hes tion patches are calcareous,  rgillite, rare week calcareous  interval for 25 cm near ith clusters of thin bads few beds are predominantly to undulating, most bads near base of top very thick cut by a network of fine ly bleached zones (eg. 7717 fractures with pyrrhotite.	Ane	•		Elev.
Drill Hole Reco	District Western  Location  Core Size  Core	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  % Recov.  contacts diffuse to sharpore.  contacts sharp and flat to recontacts sharp and flat recontacts sharp and flat recontacts and very colcareous and very thick bedded to recontact which bedded to recontact sharp and flat recontacts are sharp and flat recontacts and very thick bedded to recontact sharp and flat recontacts and recontact sharp and flat recontacts are sharp and flat recontacts and recontact with fine reconstructions. A few intenses reconstructed with fine reconstructed wit	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  t grey, medium grained, top re clear white and appear  p and flat, 50k of interval  o light grey, thick bedded to wavy. Some contacts are re abundant rip-up cleats w angle shearing indicative enite 7671.0 - 7674.0' has tion patches are calcareous,  rgillite, rare weak calcareous interval for 25 cm near ith clusters of thin bads few beds are predominantly to undulating, most beds near base of top very thick cut by a network of fine ity bleached zones (eg. 7717 fractures with pyrrhotite. 70 9 7744'.  bedded plus one thick bed,	Ane	•		Elev

• first set of footages as per footage blocks, bracketed footages are true feet.

Property SULLIVAN	District Western	Hole No. DDH6464		i			
Commenced	Location	Tests at	Hor, Comp.				-
Completed	Core Size	Corr. Dip	Vert. Comp.	<del></del>		٦	l
Co-ordinates		True Brg.	Logged by	<b></b>  ₋		90	1
Objective		% Recov.	Date	Cleta	T Brig	Coller	š
Foolage Descri	ption			Anal		lo	<u> </u>
tom To				-	╁	╁┈	+
	one thick bed is a (soft) wacke in the widdle of the bed and nu the upper one third predominant!	merous thin, long clas	sta of argillite throughout	F	F	-	F
7752.0 - 7757.5				ct	Г		1
(7721.5-7727.0)+	between the "beds" is very ifre A 0.5 foot white, very calcared at 7754.0° is interpreted as a c	us section containing bi			E		
7757.5 - 7764.0	Argillite/subvacke, minor wacke,			<b>├</b> -	╁	╂	╀
(7727.0-7733.5)	sherp and flat to detached and This interval probably slid or a 63° # 7764'.			-		-	+
7764.0 - 7774.0	Vacke/subwacke (ergillite/quart				╆	$\vdash$	╈
(7793.5-7749.5)=	medium bedded, contacts sharp to contain argillite clasts. Shor				†	1	$\dagger$
	accompanied by chlorite. Variat feature, i.e. 28° @ 7767', 59° @	ion in bedding to core					Ι
					L		Γ
7774.0 - 7790.0 (7743.5-7759.0)•	Argillite/mubwacke (wacke), wi dark grey, thin and medium bedde	d, a portion of the w	acke interval is lawinated.	<u> </u>	ļ	1	
	Elongate pointed ergillite cl beds terminate at micro-faults:			<u> </u>	1	1	<b> </b> -
	bedding from 45° to 36° (77 7781.0 - 7782.5'.				<u> </u>	<del> -</del>	$\pm$
7790.0 - 7798.0	Vacke/quartz wacke (subwacke/drg			<u> </u>	+	<del> </del>	1
(7759.0-7767.0)	few thin beds, contacts are sh the thickest beds (one at top, q			$\vdash$	+	$\vdash$	+
	• First set of footages as per f	Cootage blocks. brackets	d footages are true feet.	<u>.  </u>	<u>†</u>	1	
<u>'</u>		Cootage blocks. brackets	d footages are true feet.	<u>·   -</u>	<u>†-</u>		<u> </u>
Drill Hole Reco	rd		Cominen Page 45	<u>-</u> -	<u>†</u>		
Property SULLIVAN	rd		Cominen Page 45	<u>·</u>	<del> -</del> 		
Property SULLIVAN	rd District Western	Hole No. DDH6464	Comince Page 45	<u>.   -                                   </u>	<del>                                     </del>		
Property SULLIVAN	rd  District Western  Location	Hole No. DDH6464 Tests at	thomines Page 45  Hor. Comp.		<del>                                     </del>	Old Old	
Property SULLIVAN Commenced Completed	rd  District Western  Location	Hole No. DDH6464 Tests at Corr. Dip	Hor. Comp.  Vert. Comp.	.	200		
Property SULLIVAN Commenced Completed Co-ordinates Objective	District Western Location Core Size	Hole No. DDH6464 Tests at Corr. Dlp True Brg.	Hor. Comp.  Vert. Comp.  Logged by	Cialm	+ Brb.	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinales	District Western Location Core Size	Hole No. DDH6464 Tests at Corr. Dlp True Brg.	Hor. Comp.  Vert. Comp.  Logged by		Picki	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Descri	District Western Location Core Size	Hole No. DDH6464 Tests at Corr. Dip True Brg. % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Data		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Descri	District Western Location Core Size  ption  beds have characteristic alteres0° in opposite sense et 7794'.	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Factage From To	District Western Location Core Size  polion  beds have characteristic alteres 60° in opposite sense et 7794'.  Alternately dominating wacks/suit possible quartz arenite) bed	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.  stion features. Beddin bwacke/argillite with o	Hor. Comp.  Vert. Comp.  Legged by  Data  g to core 50° with cleavage  ccasional quartz wacks (one and sedius badded, one short		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Factage From Ye  7798.0 - 7823.0	ption  District Western  Location  Core Size  point  beds have characteristic alternates  60° in opposite sense at 7794'.  Alternately dominating wacks/suppossible quartz arenite) bed claminated interval, some quartz and flat to wavy, clasts present	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.  ation features. Beddin bwacke/argillite with o or portion of bed, thin wacke is thick bedded, ht but not common. Pyrr	Hor. Comp.  Vert. Comp.  Logged by  Date  Cocasional quartz wacks (one and medium bedded, one short contacts sherp (to vague) thotite dissessmeted in silty		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Factage From Ye  7798.0 - 7823.0	District Western Location Core Size  policy  policy  policy  Alternately dominating wacke/sur possible quartz arenite) bed laminated interval, some quartz	Hole No. DDH6464 Tests at Corr. Dlp True Brg. % Recov.  ation features. Beddin bwacks/argillite with o or portion of bed, thin wacks is thick bedded, nt but not common. Pyrr f two of the thick beds	Hor. Comp.  Vert. Comp.  Logged by  Data  Common Logge		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Faciage From Ye  7798.0 - 7823.0 (7767.0-7791.5) =	District Western Location Core Size  prion  beds have characteristic alteresses in opposite sense at 7794'.  Alternately dominating wacks/suit possible quartz arenite) bed claminated interval, some quartz and flat to vavy, clasts present parts of some beds. Portions of Large flame structure noted at 50° \$ 7823'.  Argillite/subwacke, a few beds in the structure of the structure	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  ation features. Beddin  bwacke/argillite with o  or portion of bed, thin  wacke is thick bedded,  nt but not common. Pyrr  f two of the thick beds  t 7820'. Bedding to co  have a wacke composition	Hor. Comp.  Vert. Comp.  Logged by  Data  Cocasional quartz wacks (one and sedius bedded, one short contacts sherp (to vague) that disseminated in silty are moderately calcareous.  The sedius grey, thin bedded the sedius grey, thin bedded		- 11 -	Solla	Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Descri 7798.0 - 7823.0 (7767.0-7791.5) =	District Western Location Core Size  prion  beds have characteristic altere 60° in opposite sense et 7794'.  Alternately dominating wacks/sui possible quartz arenite) bed laminated interval, some quartz and flat to wavy, clasts presenparts of some beds. Portions of targe flame structure noted at 50° € 7823'.  Argillite/subwacke, a few beds with laminated portions, con-	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  stion features. Beddin  bwacke/argillite with o  or portion of bed, thin  wacke is thick bedded,  nt but not cosmon. Pyrr  f two of the thick beds  t 7820'. Bedding to co  have a wacke composition  tacts sharp to flat a	Hor. Comp.  Vert. Comp.  Legged by  Data  Grant and quartz wacke (one and sedius bedded, one short contacts sherp (to vague) thotite dissessmated in silty are moderately calcareous, are 33° \$ 7800°, 53° \$ 7810°,  Medium grey, thin bedded and wavy, pyrchotite noted in		- 11 -	Solla	E Hev.
Property SULLIVAN Commenced Completed Co-ordinates Objective Faciage From Ye  7798.0 - 7823.0 (7767.0-7791.5) =	District Western Location Core Size  prion  beds have characteristic alteresses in opposite sense at 7794'.  Alternately dominating wacks/suit possible quartz arenite) bed claminated interval, some quartz and flat to vavy, clasts present parts of some beds. Portions of Large flame structure noted at 50° \$ 7823'.  Argillite/subwacke, a few beds in the structure of the structure	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  ation features. Beddin  bwacks/argillite with o  or portion of bed, thin  wacks is thick bedded,  nt but not common. Pyrr  f two of the thick beds  t 7820'. Bedding to co  have a wacks composition  tacts sharp to flat a  hin argillite. Pyrrhot  d at 7825.5'. Detached	Hor. Comp.  Vert. Comp.  Logged by  Date  Date  Consistent quartz wacks (one and medius bedded, one short contacts sherp (to vague) hotite dissessinated in silty are moderately calcareous. From 53° 8 7800°, 53° 8 7810°,  A medium grey, thin bedded and wavy, pyrrhotite noted in ite layers 1 to 3 ms thick orgillite layers and orgillite layers and orgillite	A01	- 11 -	Solla	Elev
Property SULLIVAN Commenced Completed Co-ordinates Objective Faciage From Ye  7798.0 - 7823.0 (7767.0-7791.5) =	ption  District Western  Location  Core Size  Core Size  polion  beds have characteristic alternation of the second of the secon	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  Ation features. Beddin  bwacks/argillite with o  or portion of bed, thin  wacks is thick bedded,  at but not common. Pyrr  f two of the thick beds  t 7820'. Bedding to co  have a wacks composition  tacts sharp to flat a  hin argillite. Pyrrhot  d at 7825.5'. Detached  ding to core 55° at 7828  gillite), light gray, f  to vegue and flat to ir	Hor. Comp.  Vert. Comp.  Logged by  Date  Date  Consistent quartz wacks (one and medius bedded, one short contacts sherp (to vague) hotite disseminated in silty are moderately calcareous. From 53° \$ 7800°, 53° \$ 7810°,  A medium grey, thin bedded and wavy, pyrrhotite noted in ite layers 1 to 3 mm thick argillite layers and argillite.  Time grained, thick, medium regular. Several moderately	A01	- 11 -	Solla	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  Footage Descri  7798.0 - 7823.0 (7767.0-7791.5) •  7823.0 - 7831.0 (7791.5-7799.5) •  7831.0 - 7838.0 (7799.5-7806.5) •	District Western Location Core Size  prion  beds have characteristic altere 60° in opposite sense et 7794'.  Alternately dominating wacks/suit possible quartz arenite) bed claminated interval, some quartz and flat to wavy, clasts present parts of some beds. Portions of targe flame structure noted at 50° € 7823'.  Argillite/subwacke, a few beds with laminated portions, consone contorted silty layers with in low angle micro-thrusts noted clasts noted 8726 - 8727'. Beds Quartz wacke/wacke/(subwacke/arend thin bedded, contacts sharp calcareous patches, some of whice	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  stion features. Beddin  bwacks/argillite with o  or portion of bed, thin  wacks is thick bedded,  nt but not common. Pyrr  f two of the thick beds  t 7820'. Bedding to co  have a wacks composition  tacts sharp to flat a  hin argillite. Pyrrhot  d at 7825.3'. Detached  ding to core 55° at 7828  gillite), light grey, f  to vague and flat to ir  ch are associated with f  sted, weakly calcareous	Hor. Comp.  Vert. Comp.  Logged by  Date  The contents and sed on a short contects sherp (to vague) that dissensinated in silty are moderately calcareous. The sed of the contents and sed of the contects and sed of the contents and sed of the cont	A01	- 11 -	Solla	Elev.
Property SULLIVAN  Commenced  Completed  Co-ordinates  Objective  7798.0 - 7823.0 (7767.0-7791.5) -  7823.0 - 7831.0 (7791.5-7799.5) -  7831.0 - 7838.0 (7799.5-7806.5) -  7838.0 - 7842.7 (7806.5-7811.0-)  7842.7 - 7844.5	District Western Location Core Size  prion  beds have characteristic alteresses in opposite sense at 7794'.  Alternately dominating wacke/supossible quartz arenite) bed laminated interval, some quartz and flat to wavy, clasts present parts of some beds. Portions of Large flame structure noted at 50° \$ 7823'.  Argillite/subwacke, a few beds with laminated portions, contains and contorted silty layers with in low angle micro-thrusts noted clasts noted 8726 - 8727'. Beds and thin bedded, contacts sharp calcareous patches, some of which wacke, dark gray, thinly lamin foot then uniformly even perallicated.	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  stion features. Beddin bwacke/argillite with o or portion of bed, thin wacke is thick bedded, nt but not common. Pyrr f two of the thick beds t 7820'. Bedding to co have a wacke composition tacts sharp to flat a hin argillite. Pyrrhot d at 7825.5'. Detached ding to core 550 at 7828 gillite), light gray, f to vegue and flat to ir ch ere associated with f sted, weakly calcareous el lominated. Bedding t ium and medium gray elt	Hor. Comp.  Vert. Comp.  Legged by  Data  Grassional quartz wacke (one and medium bedded, one short contacts sharp (to vague) thotite disseminated in silty are moderately calcareous. Fro 33° 8 7800°, 53° 8 7810°, and wavy, pyrrhotite noted in ite layers 1 to 3 mm thick orgilite layers and orgilite.  Time grained, thick, medium regular. Several moderately ine white fractures.  Wavy laminated over first to core 47° 8 7842°.	A01	- 11 -	Solla	La Company of the Com
Property SULLIVAN  Commenced Completed Co-ordinates Objective  Faciage Pown 19  7798.0 - 7823.0 (7767.0-7791.5) =  7823.0 - 7831.0 (7791.5-7799.5) =  7831.0 - 7838.0 (7799.5-7806.5) =  7838.0 - 7842.7 (7806.5-7811.0-)  7842.7 - 7844.5 (7811.0-7812.5) =  7844.5 - 7853.5	District Western Location Core Size  Deal have characteristic alteres of the control of the cont	Hole No. DDH6464  Tests at  Corr. Dlp  True Brg.  % Recov.  stion features. Beddin bwacke/argillite with o or portion of bed, thin wacke is thick bedded, nt but not common. Pyrr f two of the thick beds t 7820'. Bedding to co have a wacke composition tacts sharp to flat a hin argillite. Pyrrhot d at 7825.3'. Detached ding to core 55° at 7828 gillite), light gray, f to vague and flat to ir ch are associated with f ated, weakly calcareous el lominated. Bedding t ium and medium gray elt seminated in the subwac illite, light gray, f some widely spaced loc	Hor. Comp.  Vert. Comp.  Legged by  Data  Cocasional quartz wacke (one and medium bedded, one short contacts sharp (to vague) hotite disseminated in silty are moderately calcareous. Fro 33° 8 7800', 53° 8 7810',  In medium grey, thin bedded and wavy, pyrrhotite noted in ite layers 1 to 3 mm thick orgilite layers and argilite.  Time grained, thick, medium regular. Several moderately ine white fractures.  Wavy laminated over first to core 47° 8 7842'.  Ternsting, cm beds to 7843.6' che.  Time grained, thick bedded, cations as either longoon 1 to	A01	- 11 -	8	Elev.

Property SULLIVAN	District Western  Location	Hole No. DDH6464	Hor, Camp.			
Completed	Core Size	Corr. Dip	Vert. Comp.			.
Co-ordinates		True Brg.	Logged by	<u> </u>	ā	.
Objective		% Recov.	Date	Cleim	Cotter of	
				Analys		
Footage Descri	ption	<u> </u>		$-\Box$	干	$\equiv$
}				$\vdash$	_	_
Ì	partially remobilized from be		ons into cleavage and within	<b>├-</b>	$\dashv$	
	a contorted zone in an argilli	te rich layer.				_
7853.5 - 7855.0	Wacke, dark grey, poorly, very	thinly laminated with	a 2 cm wavy laminated zone	$\vdash$	+	
(7821.5-7823.0	near the base.			<u></u>	$\dashv$	_
7855.0 - 7860.0	Single bed graded fors quart	z wacke to argillite, fir	e grained base, light medium		+	_
(7823.0-7828.0)*	by pyrrhotite, are present	within argillite/subwec)	e/wacke from 7855.0-7856.5'.	<del>     </del>	+	
	Apart from white fractures the	basel interval is rather	featureless.	<u>}</u>	+	_
7860.0 - 7864.0	Argillite/aubwacke, medium gre	y, thin bedded, contact	s sharp and flat, subwacks	<u> </u>	$\dashv$	_
(7828,D-7832.0)*	intervals often are cross la core 50° # 7862'.	minated (pale grey and	not calcareous). Bedding to	\ <del></del> \		
				<del>  -  </del>	_	
7864.0 - 7886.5 (7832.0-7854.0)*	•	one minor subvacke/argill: on medium), thick bed:	ite top noted. light medium ied, the one contact observed		_	
1,05210 ,05110,-	is diffuse, massive and rather	: featureless. Only c	rumbles of possible braccis		<del></del>	
İ	recovered from 7875.0 - 7875.3	). Bedding to core 55°.			$\vdash$	_
7886.5 - 7893.5	Argillite/subvacke, dense da broken. Slickensides common					_
(7854.0-7861.0)	of core missing.	parallel to ibedding,	gouge near ecarc. Pour leer		一	_
7402 # - 7016 0	Quartz arehite/quertz wacks, 1	light gray, andium grains	d. thick (some wedice) hedded			_
7893.5 - 7916.0 (7861.0-7883.0)	with 3 intervals of subwacks	/argillite in very thin	and thin beds. The latter		$\Box$	_
	contain some cross lamination are scattered in the miltier p	ions and display some dep parts of some thin bads	formation. Pyrrhotite grains and within clusters in the			
	thicker beds. Bedding to core	55° 8 7899', 58° 8 7914	· .		$\sqcap$	_
,	• First set of footsess as per	footage blocks, bracket	ed footages are true feet.	$\cdot \mid \neg \mid$	$\sqcap$	
						_

Drill Hole Recor	Diatrict Western	Hole No. DDH6464	Cominos Page 47			
Property SULLIVAN	Location	Tests at	Hor. Come.	1		
Commenced Completed	Core Size	Corr. Dio	Vert. Comp.	7	ŀ	ŀ
Co-ordinates		True Brg.	Logged by	]	1	윰
Objective		% Recov.	Date	Clean	9.0	Coller Dip
				- O Ana		Ŏ.
Footage Descrip	tion					
7916.0 - 7929.0	Subwacke, argillite with thr				<u> </u>	
(7883.0-7896.0)*	7922-7923', 7926-7928'), derk g culcareous wacke bads are pro			<b>—</b>	┰	┪
1	all sharp and flat, cross lami			-	$\vdash$	Н
1	to core 55° # 7925'.			-	╁	┪
7929.0 - 7947.0 (7896.0-7913.5)*	Wacke/subwacke/argillite with			$\vdash$	<del>                                     </del>	⇈
(7896.0-7913.5)*	medium, thick, and thin bedded, some irregular on a small scale			<del> </del>	†-	1
	contain numerous elongate clast				+-	1-
	arenite from 7938 to 7941', t it is not toursalinite. One be			-	+	Г
	wacke/quartz arenite from 7942			<b> -</b>	T	$\vdash$
1	fault cutting core at 65° cutti to core 45° with cleavage 50° i		at 53° to core. Bedding	-	+	┢
	** · · · · · · · ·	••		-	+	1
7947.0 - 8057.5	Quartz wacke and some quartz as			-	1	$\vdash$
	to very thick bedded except the	short intervals of sedius	and thin beds of subwacks	$\vdash$	+-	+
	and argillite there are (about Bed contacts are sharp to die			$\vdash$	1	╂
	have a shredded appearance and	some contain elongate rip-	up cleats, very pronounced	1-	+-	╂
	flame (?) structures on overtu- noted between 7960' and 7973'			$\vdash$	╁	┰
1	examination of a specimen at 79	70' indicates & wacks-subw	acke breccia that contains	$\vdash$	+	╁
	significant albite and is rehear Pyrrhotite is present but rere			-	╅	┿
	micro-faulta), 45° to 0° from 7 55° @ 8010', 39° @ 8035', 33° (	'964 - 7966', 80° 🖷 7969', 🖰	51° 8 7984', 58° 8 7996',		十	+-
1	Ju- # 8010 , 37- # 8030 , 33- 6			-	+-	1
1	• First not of footages as per		•	,  ·	ł	1

Property SULLIVAN	District Western	Hole No. DDH6464	<b>\$</b> -\$		ì		1
	District Western  Location	Tests at	Hor. Comp.	1 1			
Commenced		Corr. Dip	Vert. Comp.	7 i			ļ
Completed	Core Size	True Brg.	Logged by	7		å	ĺ
Co-ordinates	<del></del>	% Recov.	Date	٦٤	ė.	L I	
)bjective		A FIREWAY.				3	<u>.</u>
onlage Desc	iption			Analy	# 13 		
	Argillitm - graphite sylonite (7) 1	flanking paraint of o	marte wain. The wain is			$\Box$	_
6057.5 - 8059.0 (8022.0-8023.7)	fractured and contains ankerite and s	winor calcite and a 1	ittle coarse pyrrhotite.	-		$\vdash \vdash$	
	The upper margin has more argillite a graphite, is incohesive and contains			$\rightarrow$		₩	
	broken out of the vein in the dril	lling or emptying the	tube. The graphite zones	$\vdash$		┞	
	are each about 10 cm thick and have quartz vein is 16 cm thick. Hisot			$\vdash$		$\vdash$	-
	to be cutting the core et 60-700.			-	-	┨┈┪	
6059.0 - 8088.5	Packe/(quertz wacke) with subwacke/				-	<del>[ -  </del>	
(8023.7-B053.0)	below 8082', thick bedded, bed cont or shredded, beds are graded, some fi			$\vdash$	$\vdash$	H	
	most of the bed with rere clast or	r rip-up shred, with	shredded very thin bedded	$\Box$	_	$\Box$	
	or laminated tops. Rare quartz veir 3 to 6 cm wide at 8083' is cut by	y a pyrrhotite vein 3	to 6 cm wide, the quartz				
	vain cuts the core at about 500, the 500. Bedding to core 500 @ 8080'.	pyrrhotite vein cu	ts core at about 35° to	$\sqcap$			
8088.5 - 8139.7 (8053.0~8103.1)	Quartz orenite/quartz wacke/wacke, thick bedded, fine grained (just about						
	(one diffuse), a few are flat or way closte are rare but are present at t)	y and some are shredde	d, convoluted or attenuated,			<u>[]</u>	
	(Bowsa A) and some have a faint Bour	me B lemination. Two	short very lisy intervals	<u> </u>	<u> </u>	Ш	
	8106 - 8107' and 8128.5 - 8129.0'.	Bedding to core 65° ■	8104',	<u> </u>	_	$\vdash \vdash$	
8139.7 - 8145.0				<u> </u>	$\vdash$	$\vdash\vdash$	
(8103.1-8108.3)	have a disrupted texture overprinted	and cut by alicke	naide surfaces. Between			$\vdash$	-
	8139.7 and 8140.0' both a breccia are black probably graphitic argilla			$\vdash$		$\vdash$	$\vdash$
	• First set of footages as per footage			. ├─		$\vdash$	$\vdash$
	- Tree are of vooreing as her rootal	2- wavenes brackered I			•		_
		·					
Drill Hole Rec	ord		COMMON PAGE AS		1		
Drill Hole Rec		2005454	Cominco Page 49				
Property_SULLIVAN	District Western	Hole No. DDH6464	<b>◆</b> ◆				
Property SULLIVAN	District Western  Location	Tests at	Her. Comp.				
Property SULLIVAN Commenced Completed	District Western	Tests at Corr. Dip	Hor. Comp.  Vert. Comp.			dic	
Property SULLIVAN Commenced Completed Co-ordinates	District Western  Location	Tests at Corr. Olp Yrue Brg.	Her. Comp.	- ui	ığı	lar Dip	
Property SULLIVAN Commenced Completed Co-ordinates	District Western  Location	Tests at Corr. Dip	Hor. Comp.  Vert. Comp.  Logged by		T Brg.		Elev.
Property SULLIVAN Commenced Completed Co-ordinates Objective	District Western  Location	Tests at Corr. Olp Yrue Brg.	Hor. Comp.  Vert. Comp.  Logged by	E O Anal		1	
Property SULLIVAN Commenced Completed Co-ordinates Objective Facings Des	District Western  Location  Core Size	Tests at Corr. Olp True Brg. % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date	Anai		1	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Des	District Western Location Core Size	Tests at Corr. Dip True Brg. % Recov.	Hor. Comp.  Vert. Comp.  Logged by  Date  Om 8144.8 to 8145.0° is a	Anai		1	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Pootage From To Description 8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate frequents and have mylon quartz wacke/quartz eremite crush bro	Tests at Corr. Dip True Brg. % Recov.  nitic appearance. Fraccia. Shearing at 81 ith wecke/subwacke/arg	Hor. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 40.0' cuts core at 660, gillite tops, light gray,	LENGTH	ysis	1	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From 10  8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate fragments and have mylor quartz wacke/quartz erenite crush browning the grained, thick and very the	Tests at  Corr. Dip  True Brg.  % Recov.  nitic appearance. Fraccie. Shearing at 81 ith wecke/subwacke/argick bedded, bed contact	Hor. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 40.0' cuts core at 66°,  gillite tops, light gray, the are generally distinct	LENGTH	ysis	1	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Pootage From To Description 8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate fragments and have mylor quartz wacke/quartz erenite crush browning grained, thick and very the and sost are irregular being either angles to core. The entire into	Tests at  Corr. Dip  True Brg.  % Recov.  nitic appearance. Fraccia, Shearing at 81 ith wecke/subwacke/argick bedded, bed contactions bedded, wavy or incepted is rather badly	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 40.0' cuts core at 66°,  willite tops, light gray, the are generally distinct lined at quite different broken to pieces smaller	CORE LENGTH	ysis	STRATIGRAPHIC THICKNESS Feet	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From 10  8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz erenite crush brought fine grained, thick and very the end sost are irregular being either angles to core. The entire interest than 15 cm long and several contacting generally cut the core between 600	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Itic appearance. Frecie. Shearing at 81 ith wecke/subwacke/argick bedded, bed contacts abroadled, wavy or incerval is rather badly a are broken. Slice to 80°. Rip-up class	Hor. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 40.0' cuts core at 660, will the tops, light gray, at are generally distinct lined at quite different proken to pieces smaller themsides are common and the are present, generally	LENGTH	ysis	8 STRATIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Pootage From To Description 8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz arenite crush browning to core the property of the grained, thick and very the and sost are irregular being either angles to core. The entire into them 15 cm long and several contact.	Tests at  Corr. Dip  True Brg.  % Recov.  nitic appearance. Frecia. Shearing at 81 ith wecke/subwacke/arg ick bedded, bed contact shredded, wavy or incerval is rather bedly a are broken. Slice to 80°. Rip-up class ous rip-ups in the	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 400.0' cuts core at 66°, gillite tops, light gray, at are generally distinct lined at quite different broken to pieces smeller chemaides are common and its are present, generally upper subwacke/argillite	CORE LENGTH	ysis	8 STRATIGRAPHIC THICKNESS Feet	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Pootage From To Description 8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz arenite crush browning to the property of the grained, thick and very the and sost are irregular being either angles to core. The entire into than 15 cm long and several contact generally cut the core between 60° seen are deteched engular argillaces portions of some bade. The longest (top contact approximately 85° to c	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Initic appearance. Fraccia. Shearing at 81 ith weake/subwacke/argick bedded, bed contachredded, wavy or incervel is rather bedly a are broken. Slic to 80°. Rip-up classous rip-ups in the teingle bed intersers, bottom is 31°), 81	Hor. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 440.0' cuts core at 660.  Willite tops, light grey, the are generally distinct thined at quite different proken to pieces amelier themsides are common and the are present, generally upper subwacke/argillite sections are 8152 to 8150' (top contact	CORE LENGTH	ysis	8 STRATIGRAPHIC THICKNESS Feet	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage From 10  8145.0 - 8177.0	District Western  Location  Core Size  Core Size  riplion  elongate fragments and have mylor quartz wocke/quartz erenite crush browning the grained, thick and very thing grained, thick and very thing as out are irregular being either angles to core. The entire into this 15 cm long and several contacting enerally cut the core between 609 seem are detected engular argillace portions of some beds. The longest (top contact approximately 850 to core to the core loss between 8175.5 and 8178	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **Itic appearance. Frecie. Shearing at 81  ith wecke/subwacke/arg ick bedded, bed contact shredded, wavy or incerval is rather badly a are broken. Slic  to 80°. Rip-up clas ous rip-ups in the t single bed interse re, bottom is 31°), 81  pears to be about 65°)	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 440.0' cuts core at 660, will te tops, light gray, that are generally distinct thined at quite different proken to pieces smaller themsides are common and that are present, generally upper subwecke/argillite actions are 8152 to 8158' 167 to 8172' (top contect end 8172 - 8177' (2 feet	CORE LENGTH	ysis	8 STRATIGRAPHIC THICKNESS Feet	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Pootage From To Description 8145.0 - 8177.0	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wocke/quartz erenite crush browning to the property of the grained, thick and very the end sost are irregular being either angles to core. The entire interest than 15 cm long and several contact generally cut the core between 60° seen are deteched engular ergillace portions of some bade. The longest (top contact approximately 85° to combroken, could be higher, bottom ap	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **Itic appearance. Frecie. Shearing at 81  ith wecke/subwacke/arg ick bedded, bed contact shredded, wavy or incerval is rather badly a are broken. Slic  to 80°. Rip-up clas ous rip-ups in the t single bed interse re, bottom is 31°), 81  pears to be about 65°)	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 440.0' cuts core at 660, will te tops, light gray, that are generally distinct thined at quite different proken to pieces smaller themsides are common and that are present, generally upper subwecke/argillite actions are 8152 to 8158' 167 to 8172' (top contect end 8172 - 8177' (2 feet	CORE LENGTH	ysis	8 STRATIGRAPHIC THICKNESS Feet	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Desirem To 8145.0 - 8177.0 (8108.3-8239.8)	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz eranite crush by a grained, thick and very the and sost are irregular being either angles to core. The entire into than 15 cm long and several contact generally cut the core between 600 seen are deteched engular expillace portions of some bade. The longest (top contact approximately 850 to combroken, could be higher, bottom applications of core loss between 8175.5 and 8178 contact not observed).  Beds consist predominantly of was	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **True Brg.  **Recov.  **Shearing at 81  ith wecke/subwacke/arg ick bedded, bed contace shredded, wavy or ince erval is rather badly a are broken. Slic  to 80°. Rip-up clas ous rip-ups in the t single bed interse re, bottom is 31°), 81  pears to be about 65°)  .5°, one foot is all  cke/subwacke/argillite	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 440.0' cuts core at 660, gillite tops, light gray, at a re generally distinct thined at quite different proken to pieces smeller thensides are common and the are present, generally upper subwacke/argillite actions are 8152 to 8150' 167 to 8172' (top contect end 8172 - 8177' (2 feet totted to this bed, basel	CORE LENGTH	ysis	8 STRATIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective Paolage From 16  8145.0 - 8177.0 (6108.3-6239.8)	District Nestern  Location  Core Size  ription  elongate fragments and have mylor quartz wocke/quartz erenite crush browning the grained, thick and very the and sost are irregular being either angles to core. The entire into them 15 cm long and several contact generally cut the core between 60° seen are deteched angular argillace portions of some bade. The longest (top contact approximately 85° to combroken, could be higher, bottom ap of core loss between 8175.5 and 8178 contact not observed).  Beds consist predominantly of we weake and in many cases quartz ereniteresite is fine grained, contacts	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **Initic appearance. Fraccia. Shearing at 81 ith weake/subwacke/argick bedded, bed contacheded, wavy or incented to 80°. Rip-up classous rip-ups in the taingle bed interestration between 131°), 81 pears to be about 65°).  **State of the state	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 660.  Fillite tops, light gray, the are generally distinct clined at quite different, broken to pieces smaller chanides are common and the are present, generally upper subwecks/argillite actions are 8152 to 8150' (67 to 8172' (top contect end 8172 - 8177' (2 feet lotted to this bed, basel to the with thinner quartz it, dark gray, come quartz peerved due to broken core	HL993	ysis	Cumulative 88 STRATIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Desirem To 8145.0 - 8177.0 (8108.3-8239.8)	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz arenite crush browning to the property of the grained, thick and very the and sost are irregular being either angles to core. The entire into this 15 cm long and several contact generally cut the core between 600 seen are deteched engular argillace portions of some beds. The longest (top contact approximately 85° to compose the contact approxi	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **Initic appearance. Fraccie. Shearing at 81  ith wecke/subwacke/arg ick bedded, bed contact shredded, wavy or ince ervel is rather bedly a are broken. Slic  to 80°. Rip-up cles ous rip-ups in the t single bed interse re, bottom is 31°), 81  pears to be about 65°)  .5°, one foot is all  cke/subwacke/argillite te bases, thick bedded ere diffuse or not och hredded). Quartz we	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 660.  Whillite tops, light gray, the are generally distinct thined at quite different proken to pieces smaller theneides are common and the are present, generally upper subwecks/argillite actions are 8152 to 8150' 67 to 8172' (top contect to end 8172 - 8177' (2 feet totted to this bed, basel to tops with thinner quartz is dark gray, come quartz beavered due to broken core acks/quartz arenits bases	CORE LENGTH	ysis	Cumulative 82 SS STANTIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Desirem To 8145.0 - 8177.0 (8108.3-8239.8)	District Nestern  Location  Core Size  Core Size  riplion  elongate fragments and have mylor quartz worke/quartz erenite crush browning the property of the grained, thick and very the end sost are irregular being either angles to core. The entire into these 15 cm long and several contact generally cut the core between 60° seen are deteched engular ergillace portions of some bads. The longest (top contact approximately 85° to core broken, could be higher, bottom approximately 85° to core loss between 8175.5 and 8178 contact not observed).  Beds consist predominantly of was worke and in many cases quartz erening are site is fine grained, contacted and irregular (some are probably a constitute 30 to 50% of most be and one 8 cm basel interval is mottle	Tests at  Corr. Dip  True Brg.  % Recov.  **Recov.  **Recov.  **Initic appearance. Frecia. Shearing at 81 ith wacke/subwacke/argick bedded, bed contacted by the state of the	Her. Comp.  Vart. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 40.0' cuts core at 66°.  Willite tops, light gray, and a fine at quite different interest in broken to pieces smaller chansides are commo and its are present, generally upper subwacks/argillite actions are 8152 to 8158'.  67 to 8172' (top contact of and 8172 - 8177' (2 feet cotted to this bed, basel of the served due to broken core acke/quartz arenits bases its portions are dark gray of the served by resembling both albits	HL993	ysis	Cumulative 88 STRATIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Desirem To 8145.0 - 8177.0 (8108.3-8239.8)	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz erenite crush browning the grained, thick and very the end soat are irregular being either angles to core. The entire into than 15 cm long and several contact generally cut the core between 600 seen are deteched engular ergillace portions of some bade. The longest (top contact approximately 850 to combroken, could be higher, bottom applications of core loss between 8175.5 and 8178 contact not observed).  Beds consist predominantly of ware wacke and in many cases quartz ereniaresite is fine grained, contacted and irregular (some are probably a constitute 30 to 50% of most by	Tests at  Corr. Dip  True Brg.  % Recov.  % Recov.  ** Recov.  ** True Brg.  ** Recov.  ** True Brg.   Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 669.  Fillite tops, light gray, the are generally distinct timed at quite different broken to pieces smaller chemides are common and the are present, generally upper subwecks/argillite actions are 8152 to 8158' (67 to 8172' (top contect end 8172 - 8177' (2 feet lotted to this bed, basel to the bed, basel to the with thinner quartz is, dark gray, come quartz perved due to broken core acke/quartz arenite bases the portions are dark gray by resembling both albite predominently wacke within	HL993	ysis	Cumulative 82 SS STANTIGRAPHIC		
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Des From To 8145.0 - 8177.0 (8108.3-8239.8)	District Western  Location  Core Size  ription  elongate frequents and have mylor quartz wacke/quartz erenite crush browners was a sure quartz erenite, we fine grained, thick and very the and sost are irregular being either angles to core. The entire intents 15 cm long end several contact generally cut the core between 60° seen are deteched engular ergillace portions of some bade. The longest (top contact approximately 85° to combote the could be higher, bottom apport core loss between 8175.5 and 8178 contact not observed).  Beds consist predominantly of we wacke and in many cases quartz erenimaresite is fine grained, contacted and irregular (some are probably a constitute 30 to 50% of most be and one 8 cm basel interval is mottle and tourmelinite. Contorted and pine	Tests at  Corr. Dip  True Brg.  % Recov.  % Recov.  **Recov.  **True Brg.  % Recov.  **True Brg.  **Recov.  **True Brg.  **Recov.  **True Brg.  **Recov.  **True Brg.  **True	Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 669.  Fillite tops, light gray, the are generally distinct timed at quite different broken to pieces smaller chemides are common and the are present, generally upper subwecks/argillite actions are 8152 to 8158' (67 to 8172' (top contect end 8172 - 8177' (2 feet lotted to this bed, basel to the bed, basel to the with thinner quartz is, dark gray, come quartz perved due to broken core acke/quartz arenite bases the portions are dark gray by resembling both albite predominently wacke within	HL993	ysis	Cumulative 82 SS STANTIGRAPHIC	
Property SULLIVAN Commenced Completed Co-ordinates Objective From To  8145.0 - 8177.0 (8108.3-8239.8)	District Western  Location  Core Size  Core Size  consist pregnents and have mylor quartz wacke/quartz erenite crush browners wacke/quartz erenite crush browners wacke, some quartz erenite, we fine grained, thick and very the and sost are irregular being either angles to core. The entire into these 15 cm long and several contact generally cut the core between 60° seen are deteched angular ergillace portions of some bade. The longest (top contact approximately 85° to combote the could be higher, bottom apport one could be higher, bottom apport contact not observed).  Beds consist predominantly of we wacke and in many cases quartz erenimates in fine grained, contacted and irregular (some are probably a constitute 30 to 50% of most be and one 8 cm basel interval is mottle and tourmalinite. Contorted and pine subwacke/argillite is secribed to argillite eround inclined wacke layer.	Tests at  Corr. Dip  True Brg.  % Recov.  % Recov.  ** Recov.  ** True Brg.  ** Recov.  ** True Brg.   Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 660, gillite tops, light gray, the are generally distinct clined at quite different, broken to pieces smaller chanides are common and the are present, generally upper subwecke/argillite actions are 8152 to 8150' 167 to 8172' (top contect to end 8172 - 8177' (2 feet lotted to this bed, basel to the series of the series of the series of the series of the series of the portions are dork gray are acted gray are acceptabling both albite predominantly wacks within mation and compaction of and argillite. Possibly	HL941 44 3 32 4 3 19 1	ysis C	Cumulative 88 STANTIGRAPHIC Feet 78 STANTIGRAPHIC		
Property SULLIVAN Commenced Completed Co-ordinates Objective Footage Desirem 19 8145.0 - 8177.0 (8108.3-8239.8) 8177.0 - 8196.0 (8139.8-8158.5)	District Nestern  Location  Core Size  Core Size  ription  elongate fragments and have mylor quartz wocke/quartz erenite crush browning the grained, thick and very thing grained, thick and very thing desired to core. The entire into them 15 cm long and several contact generally cut the core between 60° meen are deteched angular argillace portions of some bade. The longest (top contact approximately 85° to combroken, could be higher, bottom apport or to be tween 8175.5 and 8178 contact not observed).  Beds consist predominantly of we wocke and in many cases quartz erening aresite is fine grained, contacted and irregular (some are probably a constitute 30 to 50% of most bend one 8 cm basel interval is mottle and tourmolinite. Contorted and pine subwacke/argillite is ascribed to argillite around inclined wacke layer.	Tests at  Corr. Dip  True Brg.  % Recov.  % Recov.  ** Recov.  ** True Brg.  ** Recov.  ** True Brg.   Her. Comp.  Vert. Comp.  Logged by  Date  Tom 8144.8 to 8145.0' is a 140.0' cuts core at 660, gillite tops, light gray, the are generally distinct clined at quite different, broken to pieces smaller chanides are common and the are present, generally upper subwecke/argillite actions are 8152 to 8150' 167 to 8172' (top contect to end 8172 - 8177' (2 feet lotted to this bed, basel to the series of the series of the series of the series of the series of the portions are dork gray are acted gray are acceptabling both albite predominantly wacks within mation and compaction of and argillite. Possibly	HL993	ysis C	Cumulative 82 SS STANTIGRAPHIC		

\* First set of footages as per footage blocks, bracketed footages are true feut.

Completed Consider  Coordinates  True Brg. Logged by  Description  Section To	1.6 3.7 11.8 2.5	8	1.5 51.0 3.5 54.5 7.2
Objective    No Recov.   Date	1.6 3.7 11.8 7.7	yeis B	1.5 51.6 3.5 54.5 11.1 65.6
Postuge Postupion  8199.7 - 8201.3 (8162.2-8163.7)*  8201.3 - 8205.0 (8163.7-8167.4)*  8205.0 - 8216.8 (8167.4-8179.0)*  8209.0', less disaggregated aubwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated 4212.0 to 8214.0', recognizable wacke, fairly assaire, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8224.5 - 8228.5 (8166.6-8190.5)*  8224.5 - 8228.5 (8169.5-8193.0)*  8221.0 - 8234.2  One foot of core is lost, ground broken. Rostly argillite and lesser subwacke/wacket to 8211.0 - 8234.2  About 1 foot of core wissing, broken. Rostly argillite and lesser subwacke/wacket to 8211.0 - 8234.2  About 1 foot of core wissing, broken. Rostly argillite and lesser subwacket to	1.6 3.7 11.8 7.7	yeis B	1.5 51.0 3.5 54.5 11.1 65.6
8199.7 - 8201.3 (8162.2-8163.7)*  Guartz srenite, light grey, fine grained, basel contact diffuse, possibly base of thickened graded bed (the top could be the preceding interval). Bedding to core 70° 8 8201.3'.  8201.3 - 8205.0  Guartz srenite, subwacke/argillite in top 15 cm, light and medium grey, single bed, basel contact broken, poorly sorted base, disaggregated top.  8205.0 - 8216.8  (8167.4-8179.0)*  Subwacke/argillite to 8214.0, wacke to 8216.8. Single sedimentation units, medium grey, disaggregated subwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5  8216.8 - 8224.5  8224.5 - 8228.5  Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0  One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8221.0 - 8234.2  About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	1.6 3.7 11.8 7.7	yeis B	1.5 51.0 3.5 54.5 11.1 65.6
8199.7 - 8201.3 (8162.2-8163.7)*  Guartz srenite, light grey, fine grained, basal contact diffuse, possibly base of thickened graded bed (the top could be the preceding interval). Bedding to core 70° 8 8201.3'.  8201.3 - 8205.0  Guartz srenite, subwacke/argillite in top 15 cm, light and medium grey, single bed, basal contact broken, poorly sorted base, disaggregated top.  8205.0 - 8216.8  (8167.4-8179.0)*  Subwacke/argillite to 8214.0, wacke to 8216.8. Single sedimentation units, medium grey, disaggregated subwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5  8216.8 - 8224.5  8224.5 - 8228.5  Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0  One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contact at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8221.0 - 8294.2  About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	3.7 11.8 7.7	8	51.0 3.5 54.5 11.1 65.6
(8162.2-8163.7)* of thickened graded bed (the top could be the preceeding interval). Bedding to core 70° 8 8201.3'.  8201.3 - 8205.0 (8163.7-8167.4)* bed, basal contact broken, poorly sorted base, disaggregated top.  8205.0 - 8216.8 (8167.4-8179.0)* Subwacke/argillite to 8214.0, wacke to 8216.8. Single sedimentation units, medium grey, disaggregated subwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5 (8179.0-8186.6)* Sroken, 7 feet of core lost in 8 feet. Appears to be subwacke/argillite to 8217', wacke to 8223', quartz arenite to 8224.5' (fine grained).  8224.5 - 8228.5 (8186.5-8190.5)* Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8221.0 - 8234.2 About 1 foot of core missing, broken, Mostly argillite and lesser subwacke to	3.7 11.8 7.7	8	51.0 3.5 54.5 11.1 65.6
(8163.7-8167.4)* bed, basal contact broken, poorly sorted base, disaggregated top.  8205.0 - 8216.8 (8167.4-8179.0)*  Subwacke/argillite to 8214.0, wacke to 8216.8. Single sedimentation units, medium gray, disaggregated subwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5 88roken, 7 feet of core lost in 8 feet. Appears to be subwacke/argillite to 8217', (8179.0-8186.6)*  8224.5 - 8228.5 (8186.5-8190.5)*  Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is (8186.5-8190.5)*  70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8294.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	11.8	8	3.5 54.5 11.1 65.6
(8163.7-8167.4)* bed, basal contact broken, poorly sorted base, disaggregated top.  8205.0 - 8216.8 (8167.4-8179.0)*  Subwacke/argillite to 8214.0, wacke to 8216.8. Single sedimentation units, medium gray, disaggregated subwacke/argillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5  8216.8 - 8224.5  8216.8 - 8228.5 (8179.0-8186.6)*  8224.5 - 8228.5 (8186.5-8190.5)*  Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is (8186.5-8190.5)*  8228.5 - 8231.0  One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contect at base cuts core at 300. Slickensides on surfaces near 900 to core.  8231.0 - 8234.2  About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	11.8	8	54.5 11.1 65.6 7.2
(8167.4-8179.0)* grey, disaggregated subwacke/ergillite possibly wisps of wacke from 8205.0 to 8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacke, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5  8708.7 feet of core lost in 8 feet. Appears to be subwacke/argillite to 8217', (8179.0-8186.6)* wacke to 8223', quartz arenite to 8224.5' (fine grained).  8224.5 - 8228.5  (8186.6-8190.5)* Subwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is (8186.6-8190.5)* One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bad contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8294.2 About 1 foot of core missing, broken. Hostly argillite and lesser subwacke to	7.7	1	7.2
8209.0', less disaggregated 8209.0 - 8212.0', disaggregated and shredded 8212.0 to 8214.0', recognizable wacks, fairly massive, at 8214.0 - 8214.5' then core is badly broken and ground into small fragments.  8216.8 - 8224.5 8roken, 7 feet of core lost in 8 feet. Appears to be subwacks/argillite to 8217', (8179.0-8186.6)*  8224.5 - 8228.5 Subwacks/argillite, wacks, quartz wacks, broken. Bedding to core near base is (8186.6-8190.5)*  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacks/wacks, possible bad contact at base cuts core at 300. Slickensides on surfaces near 900 to core.  8231.0 - 8234.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacks to	7.7	1	7.2
is badly broken and ground into small fragments.  8216.8 - 8224.5  8roken, 7 feet of core lost in 8 feet. Appears to be subwacke/argillite to 8217', (8179.0-8186.6)*  8224.5 - 8228.5  8ubwacke/argillite, wacke, quartz wacke, broken. Bedding to core near base is (8186.6-8190.5)*  70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0  One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed contact at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8234.2  About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	4.0	Ļ	7.2
(8179.0-8186.6)* wacks to 8223', quartz arenits to 8224.5' (fine grained).  8224.5 - 8228.5 Subwacks/argillits, wacks, quartz wacks, broken. Bedding to core near base is (8186.6-8190.5)* 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacks/wacks, possible bed (8190.5-8193.0)* contact at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8234.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacks to	4.0	Ļ	+
(8179.0-8186.6)* wacks to 8223', quartz arenits to 8224.5' (fine grained).  8224.5 - 8228.5 Subwacks/argillits, wacks, quartz wacks, broken. Bedding to core near base is (8186.6-8190.5)* 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillits/subwacks/wacks, possible bad (8190.5-8193.0)* contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8234.2 About 1 foot of core missing, broken. Mostly argillits and lesser subwacks to	4.0	Ļ	+
(8186.5-8190.5) * 70°. Slickensides on surfaces near 90° to core.  8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bad (8190.5-8193.0) * contact at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8221.0 - 8294.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to		1	1
8228.5 - 8231.0 One foot of core is lost, ground broken. Argillite/subwacke/wacke, possible bed (8190.5-8193.0)* contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8234.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacke to	2.5	_	3.8
(8190.5-8193.0)* contect at base cuts core at 30°. Slickensides on surfaces near 90° to core.  8231.0 - 8234.2 About 1 foot of core missing, broken. Mostly argillite and lesser subwacks to	2.5	1	76.6
	<u> </u>	°	aritt
	3.2	+	2.9
	1	T	79.5
8234.2 - 8240.5 About 3.5' missing. Argillite to 8235.0', wacke to 8238.5' (most of core loss.	6.3	1	5.7
(8196.1-8202.3)* broken), quartz arenite/quartz wacks broken into small fragments to 8240.5'.  Slickensides on surface cutting core at 65°.		Т	85.2
•		oxdot	
	_	$\perp$	$\perp$
• first set of footages as per footage blocks, bracketed footages are true feet.		ــــــــــــــــــــــــــــــــــــــ	<del></del> -
Drill Hole Record Common Page 51			
Property SULLIVAN District Western Hole No. DDH6464			
Commenced Location Tests at Hor. Comp.	<b></b> ∤	1	
Completed Core Size Corr. Dip Vert. Comp.		1	â
Co-ordinates True Brg. Logged by	<b>⊢</b>	á	ē
Objective % Recov. Date	- Je	f Brg.	Coller
Feetage Description	Anai	iyala	
	_	十	+
8240.5 - 8243.0 Argillite/subwacke to 8241' than highly silicified wacke to 8243.0', cut by a (8202.3-8204.8) = 10 cs bedding(sub?)-perallel quartz vsin that contains less than 3% pyrrhotite.	2.5	5	2.3
Silicified, healed cataclastic textured breccia up to 4 cm wide appears truncated by small fault (surface with chlorite sheen, probable slickensides).			87.5
8243.0 - 8245.0 Single bed (as all since \$196.0 are perceived to be), argillite \$243.0 - 8243.8',	<u> </u>	上	<del>                                     </del>
(8204.8-8206.7) - quartz wacks (hesled breccis in part). Slickenside surfaces cut core at 30° and	2.0	+-	1.8 89.3
45°.		1	
	_	$\perp$	2.5
8245.0 - 8248.0 Wacke/aubwacke/argillite, dark grey, 60% is wacke/aubwacke leminite, resainder (8206.7-8209.7)* is uniform and rather featureless. Remnant of one quartz vain indicative of vein	3.0	1 7	91.8
8245.0 - 8248.0 Wacke/aubwacke/argillite, dark grey, 60% is wacke/aubwacke leminite, remainder	3.0	士	
8245.0 - 8248.0 Wacke/aubwacke/argillite, dark gray, 60% is wacke/aubwacke leminite, remainder (8206.7-8209.7)* is uniform and rather featureless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite vains are present, wost contain minor pyrrhotite. Overcoring at 8246.5' indicates appe core loss. Bedding to core 58° 8 8248'.  8248.0 - 8255.7 1.5 feet of core loss in run 8246.5 - 8256.0'.		<del> -</del>	$\bot$
8245.0 - 8248.0  (8206.7-8209.7)*  Suniform and rather featureless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite veins are present, most contain sinor pyrrhotite. Overcoring at 8246.3' indicates appearence to be one bed or sedimentation unit containing a sinor asount of wacke in the basel foot. Silky grey at first	7.7	<del> -</del>	7.1
8245.0 - 8248.0 Wacke/aubwacke/argillite, dark gray, 60% is wacke/aubwacke leminite, remainder is uniform and rather featureless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains comman pyrrhotite. Several narrow quartz and quartz-calcite vains are present, wost contain minor pyrrhotite. Overcoring at 8246.5 indicates about core loss. Bedding to core 58° \$ 8248'.  8248.0 - 8255.7 1.5 feet of core loss in run 8246.5 - 8256.0'.  Argillite/mubwacke, weakly calcareous, appears to be one bed or sedimentation unit containing a minor amount of wocks in the basel foot. Silky gray at first then dark gray, homogeneous with a small amount of disseminated fine pyrrhotite		-  -  -  -  -	7.1
8245.0 - 8248.0  (8206.7-8209.7)*  Wacke/aubwacke/ergillite, dark grey, 60% is wacke/aubwacke leminite, remainder is uniform and rather featuraless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite veins are present, wost contain minor pyrrhotite. Overcoring at 8246.3' indicates some core loss. Bedding to core 58° 8 8248'.  8248.0 - 8255.7  (8209.7-8217.3)*  Argillite/aubwacks, weakly calcareous, appears to be one bed or sedimentation unit containing a minor amount of wacke in the basel foot. Silky grey at first then dark gray, homogeneous with a small amount of disseminated fine pyrrhotite noted primarily in top helf of interval. Basel foot can be subdivided into an upper (helf) very calcareous light grey wacks with broad lominations that have		+-   	
8245.0 - 8248.0  (8206.7-8209.7)*  Suniform and rather featureless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite vains are present, most contain sinor pyrrhotite. Overcoring at 8246.5' indicates apms core loss. Bedding to core 58° 8 8248'.  8248.0 - 8255.7  (8209.7-8217.3)*  Argillite/subwacks, weakly calcareous. appears to be one bed or sedimentation unit containing a minor amount of wacks in the basel foot. Silky grey at first then dark grey, homogeneous with a small amount of disseminated fine pyrrhotite noted primarily in top helf of interval. Basel foot can be subdivided into an		-  -  -  -  -  -  -  -	
8245.0 - 8248.0  (8206.7-8209.7)*  Wacke/aubwacke/ergillite, dark grey, 60% is wacke/aubwacke leminite, remainder is uniform and rather featuraless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite veins are present, most contain minor pyrrhotite. Overcoring at 8246.5' indicates apme core loss. Bedding to core 58° 8 8248'.  8248.0 - 8255.7  (8209.7-8217.3)*  Argillite/aubwacke, weakly calcareous. appears to be one bed or sedimentation unit containing a minor amount of wacke in the basel foot. Silky grey at first then dark grey, homogeneous with a small amount of disseminated fine pyrrhotite noted primarily in top helf of interval. Basel foot can be subdivided into an upper (helf) very calcareous light grey wacke with broad lominations that have diffuse margins cutting core at 68°. The basel helf foot, possibly a separate bed is a fairly argillaceous uniform wacke with a 2 cm zone at the base that is thinly lominated. The basel foot has three bands of calcite-pyrrhotite parallel			
8245.0 - 8248.0  (8206.7-8209.7)*  Wacke/aubwacke/argillite, dark grey, 60% is wacke/aubwacke leminite, remainder is uniform and rather featureless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains coarse pyrshotite. Several narrow quartz and quartz-calcite veins are present, most contain sinor pyrshotite. Overcoring at 8246.3' indicates some core loss. Bedding to core 58° \$ 8248'.  8248.0 - 8255.7  (8209.7-8217.3)*  Argillite/aubwacke, weakly calcareous, appears to be one bed or sedimentation unit containing a minor amount of wacke in the basel foot. Silky grey at first then dark grey, homogeneous with a small amount of disseminated fine pyrshotite noted primerily in top helf of interval. Besel foot can be subdivided into an upper (helf) very calcareous light grey wacke with broad lominations that have diffuse margins cutting core at 68°. The basel helf foot, possibly a separate bed is a fairly argillaceous uniform wacke with a 2 cm zone at the base that is thinly leminated. The basel foot has three bands of calcite-pyrshotite parallel to bedding and several clusters of coarse (1X5 mm) grains of pyrshotite.			
8245.0 - 8248.0  (8206.7-8209.7)*  Wacke/aubwacke/ergillite, dark grey, 60% is wacke/aubwacke leminite, remainder is uniform and rather featuraless. Remnant of one quartz vain indicative of vain about 2 cm wide, it contains course pyrrhotite. Several narrow quartz and quartz-calcite veins are present, most contain minor pyrrhotite. Overcoring at 8246.5' indicates apme core loss. Bedding to core 58° 8 8248'.  8248.0 - 8255.7  (8209.7-8217.3)*  Argillite/aubwacke, weakly calcareous. appears to be one bed or sedimentation unit containing a minor amount of wacke in the basel foot. Silky grey at first then dark grey, homogeneous with a small amount of disseminated fine pyrrhotite noted primarily in top helf of interval. Basel foot can be subdivided into an upper (helf) very calcareous light grey wacke with broad lominations that have diffuse margins cutting core at 68°. The basel helf foot, possibly a separate bed is a fairly argillaceous uniform wacke with a 2 cm zone at the base that is thinly lominated. The basel foot has three bands of calcite-pyrrhotite parallel			

• First set of footages as per footage blocks, bracketed footages are true feet.

roperty SULLIVAN	District Western	Hole No. BBH6464	<del>'</del>		į l	ı i	
emmenced	Location	Tests at	Hor. Comp.				-
ompleted	Core Size	Corr. Dip	Vert. Comp.	<b>⊣</b> ∣			1
o-ordinates		True Brg.	Logged by	_	١. '	ă	ـ ا
bjective		% Recov.	Date	Claim	T Brg.		
)Jecure				- <del>Ö</del>		8 1	
Descrip	otion					$\Box$	$\exists$
8261.0 - 8266.0	Wacke, dork grey, primarily	laminite throughout. from	extremely weakly to mildly	<u> </u>	<u> </u>	$\sqcup$	_
	calcareous. Laminations are			5.0		4.3 1	t. 1
	intervals may have been cause					107.7	3
	laminations are from 8265.4 - 4 segregations or veins. Bedding		in several bedding-parallel				$\Box$
8266.0 - 8275.0	Argillite, single sedimentat	ion unit (here uncertain	heterine of backer determine				$\Box$
	below 8275.0'). milky grey. ve			9.0	ļ	7.7	2
	from weakly disseminated grains wide and 3 cm long. Calcite					1154	3
		•	•••		oxdapsilon	$\sqcup$	_
8275.0 - 8280.0 (8236,3-8241.2)=	Broken and ground core. 3.5 for interval. Recovered fragments			5.0	<del>  _</del>	4.3	
8280.0 - 8281.0	Wacke, weakly calcareous, so	adius ares bossessous	A few plans of purchabits	<u> </u>	⊢	119.7	
	with minor calcite noted.	actual dieta's monogeninossi	a res steps of pyrinocics	1.0	⊬	0.86	
8281.0 - 8281.8	Subvecke, very calcareous, sed:	ium and light grey, very t	thin bedded and laminated.	-	<del> </del>	0.7	-
	Pyrrhotite present as laths to	3 mm long concentrated in	calcareous layers parallel	0.8	$\vdash$	121.3	$\dashv$
	to bedding and with chlorite is	n e 3 mm wide bed. Bedding	; to core bl".	-	<del> </del>	# 14	
8281.8 - 8282.3	Wocke/subwacke/orgillite, sing: about 0.4' is wacke. Con-			0.5	$\vdash$	0.4	$\dashv$
(8243,0-8243,4)*	Contacts are sharp and flat at		ctered in a band 5 cm wide.	0	$\vdash$	1217	
8282.3 - 8282.5	4 cm of wacke leminite.			0.2	+	0.2	-
	<del>-</del>			<u> </u>	T	1219	$\dashv$
(8243.4-8243.6)•		<u>.</u>		<u> </u>	£ .	-	
(8243.4-8243.6) • 8282.5 - 8285.4	Argillite, medium silky grey.	Disseminated, extremely	fine, pyrrhotite gradually	2.9	T	2.2	
8282.5 - 6285.4	Argillite, medium milky grey. increames downward.	Disseminated, extremely	fine, pyrrhotite gradually	2.9	F	2.2	_
8282.5 - 6285.4				- 2.9		<del> </del>	_
8282.5 - 8285.4 (8243.6-8246.5)-	increases downward.  • First set of footages as per			- 2.9		<del> </del>	
8282.5 - 6285.4 (8243.6-8246.5) -	increases downward.  • First set of footages as per		footages are true feet.	- 2.9		<del> </del>	
ezaz.5 - eza5.4 (ez43.6-ez46.5)-	increases downward. • First set of footoges as per	footage blocks, bracketed	footages are true feet.	2.9		<del> </del>	
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recor	increases downward.  • First set of footages as per  Id  Dietrict Western	footage blocks, bracketed  Hole No. DDH6464	Common Page 53	2.9		24.1	
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Record  Property SULLIVAN  Commenced  Completed	increases downward.  • First set of footages as per  fd  District Western  Location	footage blocks, bracketed  Hole No. DDH6464  Tests at	Garmings Page 53  Hor. Comp.			24.1	
8282.5 - 8285.4 (8243.6-8246.5)=  Drill Hole Record  Property SULLIVAN  Commenced  Completed Co-ordinates	increases downward.  • First set of footages as per  fd  District Western  Location	footage blocks, bracketed  Hole No. DDH6464  Tests al  Corr. Dip	footages are true feet.  Gammings Page 53  Hor. Comp.  Vert. Comp.	misi	Brg.	GiQ relio	lev.
8282.5 - 8285.4 (8243.6-8246.5)=  Drill Hole Record  Property SULLIVAN  Commenced  Completed  Co-ordinates  Disjective	increases downward.  • First set of footoges as per  rd  District Western  Location  Core Size	footege blocks, bracketed  Hole No. DDH6464  Tests at Corr. Dip True Brg.	Gomings Page 53  Hor. Comp.  Vert. Comp.  Logged by	Claim	Brg.	dig relioo	lev.
8282.5 - 6285.4 (8243.6-8246.5)•	increases downward.  • First set of footoges as per  rd  District Western  Location  Core Size	footege blocks, bracketed  Hole No. DDH6464  Tests at Corr. Dip True Brg.	Gomings Page 53  Hor. Comp.  Vert. Comp.  Logged by	Claim	T Brg.	dig relioo	lev.
8282.5 - 8285.4 (8243.6-8246.5) =  Orill Hole Record Property SULLIVAN Commenced Completed Co-ordinates Dejective  B285.4 - 8265.9	increases downward.  • First set of footoges as per  Id  District Western Location Core Size  Iption  Wacke, laminite, with minor sub	Hole No. DDH6464 Tests at Carr. Dip True Brg. % Recay.	Garmings Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin-	E G	s lavis	Oollar Dig	Elev.
8282.5 - 8285.4 (8243.6-8246.5) =  Orill Hole Record roperty SULLIVAN commenced completed co-ordinates blective  potage Description 8285.4 - 8285.9	increases downward.  • First set of footoges as per  District Western Location Core Size    Prior   Prior   Prior	Hole No. DDH6464 Tests at Corr. Dip True Brg. % Recov.	footages are true feet.  Gamming Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin- on due to possible micro-	Claim	s lavis	0.5	ft.
8282.5 - 8285.4 (8243.6-8246.5) =  Orill Hole Record  Property SULLIVAN  Commenced  Co-ordinates  Description  Description  16 8285.4 - 8265.9	increases downward.  • First set of footoges as per    Column	Hole No. DDH6464 Tests at Corr. Dip True Brg. % Recov.	footages are true feet.  Gamming Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin- on due to possible micro-	E G	s lavis	Oollar Dig	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Dejective  Postage Description 8285.4 - 8285.9 (8246.5-8247.0)=	District Western Location Core Size  Wacke, laminite, with minor substitutes are distinct and flat at thrusts near the top). Pyris present with calcite in lens Argillite/subwacke/wacke, appea	Hole No. DDH6464 Tests al Corr. Dip True Brg. % Recov.  Dwacke/argillite in very the t 50° to core (some variation report to the disseminated see parallel to bedding.  are to be a continuous	footages are true feet.  Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweekly in the laminite end  single sedimentation unit	E G	Playting and a second a second and a second	0.5	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Dejective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  Wacke, laminite, with minor substitutes are distinct and flat at thrusts near the top). Pyris present with calcite in lens Argillite/subwacke/wacke, appea	Hole No. DDH6464 Tests at Corr. Dip True Brg. % Recov.  beacke/argillite in very the t 50° to core (some variation reported is disseminated see perallel to bedding.  are to be a continuous subwacke to wacke at the beautiful to be a continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke to wacke at the continuous subwacke at the continuous subwacke at the continuous subwacke at the continuous subwacke at the continuous sub	footages are true feet.  Ruminco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit ees. Hard spots at 8299.0	Ana	Playting and a second a second and a second	0.5 0.5	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Drill Hole Recoloroperty SULLIVAN commenced completed co-ordinates biblective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  Wacke, laminite, with minor substitutes are distinct and flat at thrusts near the top). Pyr is present with calcite in lens Argillite/subwacke/wacke, appead and 8300.5° do not have well de single bed rather than a	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Racov.  beacke/argillite in very the too core (some variation reported in the continuous subvacks to vacke at the bestined contacts and are come separate beds, however	footages are true feet.  Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin- on due to possible micro- weekly in the laminite and  single sedimentation unit ese. Hard spots at 8299.0 naidered variations within a faint set of laminations	Ana	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Dejective  Postage Description 8285.4 - 8285.9 (8246.5-8247.0)=	District Western Location Core Size  District and flat at thrusts near the top). Pyr is present with calcite in lens Argillite/subwacke/wacke, appeaded from argillite through and 8300.5° do not have well de a single bed rather than and a rather vegue possible corboundary is difficult to define	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  beacke/ergillite in very thing the second of the continuous authorized to be a continuous authorized to be a continuous authorized to be a continuous authorized to be a continuous authorized to wacke at the bearined contacts and are contact and are contact and are contact and be at 8299.0°  be at 8299.0°  contact and be at 8299.0°  contact and be at 8299.0°  contact and be at 8299.0°  contact and be at 8299.0°  contact and are con	footages are true feet.  Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eee. Hard spots at 8299.0 maidered variations within a feint set of laminations. The argillite/subwackergillite appears to extend	Ana	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Dejective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  District are district and flat at thrusts near the top). Pyr is present with calcite in lens Argillite/subwacke/wacke, appead graded from argillite through and 8300.5' do not have well de a single bed rather than a and a rather vague possible conboundary is difficult to define from 8285.9 - 8298.0'. The su	Hole No. DDH6464  Tests at  Corr. Dip  True Brg.  % Recov.  beacke/ergillite in very the too to core (some variation report to be a continuous subvacke to wacke at the bestined contacts and are come separate beds, however intect may be at 8299.0° s, however the ailky grey aubwacke/wacke contact is	footages are true feet.  Gamming Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit see. Herd spots at 8299.0 unsidered variations within a feint set of laminations.  The argillite/subwacke regillite appears to extend also undefinables possibly	0.5	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Drill Hole Recoloroperty SULLIVAN commenced completed co-ordinates biblective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  Wacke, laminite, with minor substitutes are distinct and flot at thrusts near the top). Pyr is present with calcite in lens Argillite/subwacke/wacke, appead graded from argillite through and 8300.5° do not have well de single bed rather than a and a rather vague possible comboundary is difficult to define from 8285.9 - 8298.0°. The suit is at about 8310°. A faint but continuous over fairly long	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/argillite in very the too core (some variation report to the base parallel to bedding.  are to be a continuous subwacke to wacke at the besined contacts and are comes separate beds, however that the separate beds, however the silky grey authorities of the separate beds, and the separate beds, however the silky grey authorities of the base. Description of the seas.	Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit see. Herd spots at 8299.0 unidered variations within a feint set of laminations.  The argillite/subwackergillite appears to extend also undefinable; possibly det 8299' and is intermitten istinctive coarse sericite	0.5	Playting and a second a second and a second	0.5 19.4	ft.
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Property SULLIVAN Commenced Co-ordinates Dejective  100100000000000000000000000000000000	District Western  Location  Cove Size  District Mestern  Location  Cove Size  District And Flat at thrusts near the top). Pyr  is present with calcite in lens  Argillite/subwacke/wacke, appeared from argillite through  and 8300.5' do not have well de  a single hed rather than a and a rather vegue possible corbonadary is difficult to define from 8285.9 - 8298.0'. The au  it is at about 8310'. A faint but continuous over fairly long is characteristic below 830t etrongly calcareous in a domine costent varies, however typics	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  **Recov.  **Recov.  **Recov.  **Description of the best of the best of the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base. Discovered to the base of occurrence is all sode of occurrence is	footages are true feet.  Gamman Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin- on due to possible micro- weekly in the laminite and  single sedimentation unit ees. Hard spots at 8299.0 nsidered variations within a faint set of laminations . The argillite/subwacke rgillite appears to extend also undefinable: possibly dat 8299' and is intermitten istinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations	0.5	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Disjective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  District We	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  beacke/ergillite in very thing the second of communication of the second of the se	footages are true feet.  formings Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eee. Hard spots at 8299.0 maidered variations within a feint set of laminations.  The argillite/subwackergillite appears to extend also undefinable; possibly dat 8299' end is intermitten internative coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite	0.5	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Dejective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  District Mestern Location Core Size  District And Color Size Location Loca	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  beacke/argillite in very the too to core (some variation record to be a continuous subwacke to wacke at the bestined contacts and are comes separate beds, however intact may be at 8299.0° as, however the ailky grey as ubwacke/wacke contact is lamination if first notice intervals to the base. D 5°. Core is weakly calculational parallel to bedding some calcite, and some interval is alsost devoid	footages are true feet.  Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweekly in the laminite and  single sedimentation unit see. Hard spots at 8299.0 maidered variations within a feint set of laminations.  The argillite/subwackergillite appears to extend also undefinable: possibly det 8299' and is intermitten instinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with celcite of pyrrhotite. Scattered	0.5	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5)=  Orill Hole Recol Property SULLIVAN Commenced Completed Co-ordinates Disjective  8285.4 - 8285.9 (8246.5-8247.0)=  8285.9 - 8313.3	District Western Location Core Size  District We	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/argillite in very the too core (some variation related to the best and the best a	Gomingo Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, lamin- on due to possible micro- weekly in the laminite and  single sedimentation unit ees. Herd spots at 8299.0 middered variations within a faint set of laminations. The argillite/subwacke rgillite appears to extend also undefinable; possibly d at 8299' and is intermitten istinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered s observed as a few sub-ss	0.5	Playting and a second a second and a second	0.5 19.4	ft.
8282.5 - 8285.4 (8243.6-8246.5) =  Property SULLIVAN Commenced Co-ordinates Objective  8285.4 - 8285.9 (8246.5-8247.0) =  8285.9 - 8319.3 (8247.0-8274.0) =	District Western Location Core Size  District Mestern Location Core Size  District and flat at thrusts near the top). Pyr is present with calcite in lense Argillite/subwacke/wacke, appead graded from argillite through and 8300.5' do not have well de a single bed rather than a and a rather vegue possible core boundary is difficult to define from 8285.9 - 8298.0'. The suit is at about 8310'. A faint but continuous over fairly long is characteristic below 8300' atrongly calcareous in a domine content varies, however typical up to 3 as wide and 3 cs long a concentrations, usually with and chlorite. The sericitic is an graine noted in the bot sized grains, but is extensly a weeke lominite with one ergillight.	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/ergillite in very the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the core (some variation) are to be a continuous subwacke to wacke at the beside of contacts and are comes separate beds, however that the same and the same of the core (some table of the table of	footages are true feet.  formings Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eee. Hard spots at 8299.0 maidered variations within a feint set of laminations. The argillite/subwackergillite appears to extend also undefinable; possibly dat 8299' end is intermitten instinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered sobserved as a few sub-mm 8 8294', 450 8 8310'.	0.5	ci.	0.5 19.4	
8282.5 - 8285.4 (8243.6-8246.5) =  Property SULLIVAN  Completed Co-ordinates Dejective  solage	District Western Location Core Size  District Mestern Location Core Size  District and flat at thrusts near the top). Pyr is present with calcite in lense Argillite/subwacke/wacke, appead graded from argillite through and 8300.5' do not have well de a single bed rather than a and a rather vegue possible core boundary is difficult to define from 8285.9 - 8298.0'. The suit is at about 8310'. A faint but continuous over fairly long is characteristic below 8300' atrongly calcareous in a domine content varies, however typical up to 3 as wide and 3 cs long a concentrations, usually with and chlorite. The sericitic is an graine noted in the bot sized grains, but is extensly a weeke lominite with one ergillight.	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/ergillite in very the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the table of the core (some variation reported by the core (some variation) are to be a continuous subwacke to wacke at the beside of contacts and are comes separate beds, however that the same and the same of the core (some table of the table of	footages are true feet.  formings Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eee. Hard spots at 8299.0 maidered variations within a feint set of laminations. The argillite/subwackergillite appears to extend also undefinable; possibly dat 8299' end is intermitten instinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered sobserved as a few sub-mm 8 8294', 450 8 8310'.	0.5	ci.	0.5 19.4 19.4 144.0	ft.
8282.5 - 8285.4 (8243.6-8246.5) =  Property SULLIVAN  Commenced  Completed Co-ordinates  Dejective  8285.4 - 8285.9 (8246.5-8247.0) =  8285.9 - 8313.3 (8247.0-8274.0) =  8313.3 - 8314.3 (8274.0-8276.5) =  8314.3 - 8322.0	District Western Location Core Size  District Mestern Location Core Size  District and flat at thrusts near the top). Pyris present with calcite in lense Argillite/subwacke/wacke, appeared from argillite through and 8300.5' do not have well de a single bed rather than a and a rather vague possible corboundary is difficult to define from 8285.9 - 8283.0'. The suit is at about 8310'. A faint but continuous over fairly long is characteristic below 8300 etrongly calcareous in a domine content varies, however typics up to 3 as wide and 3 cs long a concentrations, usually with and chlorite. The sericitic is an grains noted in the bot sized grains, but is extensely such as a grains of the location of	Hole No. DDH6464  Tests al  Corr. Dip  True Brg.  % Racov.  bracke/argillite in very the too to core (some variation report to be a continuous subwacke to wacke at the befined contacts and are comes separate beds, however intect may be at 8299.0° as however the silky grey authorated to the base. D 5°. Core is weakly calculation if first notices intervals to the base. D 5°. Core is weakly calculationally laminated zone from 8 al mode of occurrence is aligned parallel to bedding some calculate, and some interval is almost devoid too 10 cm. Sphalerite warare. Bedding to core: 45° its bed 15 mm thick, dark gears to be one single beers to be one single beers.	Hor. Comp.  Vert. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit see. Herd spots at 8299.0 maidered variations within a feint set of laminations.  The argillite/subwacke rgillite appears to extend also undefinables possibly det 8299' and is intermitten istinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered a observed as a few sub-mm  8 8294', 450 B 8310'.  Trey, even paralle laminations d. Argillite, silky grey.	0.5	ging.	0.5 19.4 19.4 0.7	
8282.5 - 8285.4 (8243.6-8246.5) =  Property SULLIYAN Commenced Completed Co-ordinates Dejective  8285.4 - 8265.9 (8246.5-8247.0) =  8285.9 - 8313.3 (8247.0-8274.0) =	District Western  Location  Core Size  District Mestern  Acquilite Mestern  Argilite Mestern  Description  Continuous over fairly long  is characteristic below 8300  etrongly calcareous in a domine  content veries, however typics  up to 3 sm wide and 3 cm long a  concentrations, usually with  and chlorite. The sericitic in  is a graine noted in the bot  sized grains, but is extensly in  Wecke lominite with one argilling  to 420 to core.  Argillite/subwacke/wacke, epper  weakly calcareous, to 8316.57;  over about helf of the interv	Hote No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/argillite in very the to 50° to core (some variation reported to the best and are consumered to the best allowed to the best allowed to the base. Do 5'. Core is weakly calculation if first notices in the best allowed to the base. Do 5'. Core is weakly calculationally laminated zone from 8 allowed parallel to bedding some calculate, and some interval is almost devoid toos 10 cm. Sphalerite was rare. Bedding to core: 45° its bed 15 mm thick, derk gears to be one single be subwacke, calcareous, medival to 8321.0'; wacke and	Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eas. Herd spots at 8299.0 emidered variations within a faint set of laminations.  The argillite/subwackergillite appears to extend also undefinables possibly det 8299' and is intermittentistinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered sobserved as a few sub-ss 8294', 450 8 8310'.  Trey, even paralle laminated possibly quertz wacke to	0.5	ging.	0.5 19.4 19.4 0.7 144.0	Elev.
8282.5 - 8285.4 (8243.6-8246.5) =  Property SULLIVAN  Commenced  Completed  Co-ordinates  Dejective  8285.4 - 8285.9 (8246.5-8247.0) =  8285.9 - 8313.3 (8247.0-8274.0) =  8313.3 - 8314.3 (8274.0-8276.5) =  8314.3 - 8322.0	District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District Western  Location  Core Size  District And Flat at thrusts near the top). Pyr  is present with calcite in lens  Argillite/subwacke/wacke, appeared from argillite through and 8300.5' do not have well de a single hed rather than a and a rather vegue possible core boundary is difficult to define from 8285.9 - 8298.0'. The said is characteristic below 830th the strict of the said continuous over fairly long is characteristic below 830th etrongly calcareous in a domina costent varies, however typical up to 3 mm wide and 3 cm long a concentrations, usually with and chlorite. The sericitic is an graine noted in the both aired grains, but is extensly in the sericitie of the said grains, but is extensly in the sericitie of the	Hote No. DDH6464  Tests al  Corr. Dip  True Brg.  % Recov.  bwacke/argillite in very the to 50° to core (some variation reported to the best and are consumered to the best allowed to the best allowed to the base. Do 5'. Core is weakly calculation if first notices in the best allowed to the base. Do 5'. Core is weakly calculationally laminated zone from 8 allowed parallel to bedding some calculate, and some interval is almost devoid toos 10 cm. Sphalerite was rare. Bedding to core: 45° its bed 15 mm thick, derk gears to be one single be subwacke, calcareous, medival to 8321.0'; wacke and	Gammaco Page 53  Hor. Comp.  Vert. Comp.  Logged by  Date  in beds, dark grey, laminon due to possible microweakly in the laminite and  single sedimentation unit eas. Herd spots at 8299.0 emidered variations within a faint set of laminations.  The argillite/subwackergillite appears to extend also undefinables possibly det 8299' and is intermittentistinctive coarse sericite areous below 8302' (and is 310 - 8311'). Pyrrhotite in granular concentrations; there are a few larger narrow veins with calcite of pyrrhotite. Scattered sobserved as a few sub-ss 8294', 450 8 8310'.  Trey, even paralle laminated possibly quertz wacke to	0.5	ging.	0.5 19.4 144.0 0.7 19.4 144.7	ft.

Drill Hole Record

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mmenced	Location	Tests al	Hor. Comp.					ı
mpleted	Core Size	Corr. Dip	Vert. Comp.		ļ	e C		1
-ordinates		True Brg.	Logged by	ا ء			١.	Ě
ective		% Recov.	Date	Claim	F Brg.	Coller	100	enoth
olege Opscrit	No.			Anah			<u></u>	<u>-</u> =
m To Oescrip	onon	<u></u>	<del></del>	$\blacksquare$				Ŧ
	is weakly calcareous and has a very weakly disseminated. Beddi		. Pyrrhotite is weakly to					‡
8322.0 - 8330.0	Wacke/subwacke/argillite. medium			<u> </u>	<u>—</u>	-		<u></u>
8282.5-8290.4)-	60% subwacke and argillite in units 1 - 10 cs thick, contacts			8.0		5.6 155.9		
	by tectonism. Non calcareous	to very weakly calcared	us with exception of 10 cm	<u> </u>		155.5	-	f
	very calcareous quartz wacke at is present in a few sinor hairl				├	┼─	⊢	+
	layers parallel to bedding. Bed	ding to core: 440 e		ļ <u>.</u>	<b> </b> -	<del> </del>	<del> </del>	4
	(?) 56° in opposite sense at 832	7'.		ļ	├	<b>├</b>	<del> </del>	4
330.0 - 8337.0	Subwacke, derk grey, very we			$\vdash$	▙	┞	⊢	4
8290.4-8297.3)*	minor argillite/subwacks to 8331 is in several bedding parallel			7.0	├	3.5	ــــ	4
	between 8330 and 8331.5' and i	n very thin frectures	with calcite throughout.		╙	1594	╙	
	Badding to core: 31° 0 8332' 0 8336'.	, 39° # 8337'; cleavage	dips in opposite sense. 29°		╙	╄	ᄂ	4
				ļ	<b> </b> _	↓	<del> </del>	4
337.0 - 8353.0 (8297.3-8313.0)-	Argillite/subwacke/wacke, single A few internal laminations ind			<u> </u>	L	ــــــ	<b>↓</b> _	4
D297.9-0315.07-	approximately 8340', subwacks 83	40 - 8344', and wacke	to 8953'. Hard spot at	16.0	<u>L</u>	6.7	_	_
	8348' (end of run) appears to interval where some core (very 1			<u> </u>	L	166.1	١	4
	weakly calcareous, the wacke				丄	↓	<del> _</del>	4
	calcareous to 8352.5'. The su leminated. Pyrrhotite occurs i				L	<u> </u>	L	⅃
	with pale silty material and chl				Ŀ	<u> </u>	L	1
	with chlorite and calcite. Ve 280-150 @ 8343.5', 250 @ 8350',			<u> </u>	igdash	<u> </u>	┞	4
( ~	• First set of footages as per f	ootage blocks, bracketed	footages are true feet.	•  -				1
								_

Property District Hor. Comp. Tests at Location Commenced VerL Comp. Corr. Dio Core Bize Completed True Brg. Logged by Co-ordinates Date % Recov. Objective Description Footage Argillite/subwacks, medium to dark grey, pyrrhotite present but rare, chlorite 8353.0 - 8361.0 5.4 ft. 1.65lm noted in veinlets and a few small patches. Except for top 5 cm the laminations characteristic of such of this interval are convoluted, detached or inclined at (8313.0-8320.9)\* հ շ ւ Տ 5229 variable angles. A week pyrrhotite cleavage is present in some parts of this interval but does not appear symmetrical to the structures, therefore indicating this interval was deformed prior to lithification. 0.5 0.5 b.15 8361.0-8361.5 Vacke/quortz wacke, dark grey, no top contact; basal contact is diffuse. 5244 (8320.9-8321.4) • 1720 0.7 0.6 D. 18 8361.5 - 8362.2 Wacke, sedium grey, a few specks of pyrrhotite noted. 172.6 5252 (8321.4-8322.1) • 6362.2 - 8363.2 Argillite/subwacke, derk and medium grey, leminite with very thin beds. Pyrrhotite D.24 1.0 0.8 is present, primarily as patches in zones along the bases of the thin beds. Bedding to core  $50^{\circ}$ . (6322.1-6323.1) • 1734 5287 Argillite, silky grey, single bed, base is broken, however small fregments are polished and hard, no contact seen. Wispy calcite, chlorite with minor pyrrhotite 2.8 0.85 8363.2 - 8366.9 3.7 (8323,1-8326.7) • 176.2 372 in central part of bed. 8366.9 - 8374.5 Subvecke and wacke, medium grey, characterized by dark grey bifurcating hairline 1.77 7.6 5.8 wisps sub-perallel to bedding. These wisps occur in zones a few to 10 mm wide every 1 to 2 cm. Faint lighter coloured bands up to 1 cm wide with vague contacts, present below 6371.5' are weakly calcareous. The basel 10 cm is a very calcareous, (8326.7-8334.2) • 182.0 55.49 light grey wacks. Fyrrhotite occurs in sub-rounded patches up to 1 cm long accomponied by chlorite and some calcite, calcite often rime these features. \* First set of footages as per footage blocks, brackuted footages are true lost,

Orill Hole Reco	DDH5464					
topony	Location Tests at Hor. Comp.	1.				
Commenced	Core Size Corr. Dip Vert. Comp.	┪ :				l
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o-ordinates	% Recov. Date	E	919.			ength
bjective	A Head.	Ŭ,		S S	<u>.</u>	٤
	iption	Analy	7818	$\overline{}$		_
B374.5 - B376.1	Wacke, minor subwacke, medium grey, appears thin bedded with contacts that are vague to diffuse. Paler layers are quite thin, have minor chlorite and pyrrhotite but are not calcareous. Some dark grey bifurcating hairline laminas are present.	1.6	<del>•</del> -	1.3 183.3	ft.	0.4 55.
8376.1 - 8376.9	Bedding to core 52°.  Wacke, light gray, such harder at very base. This may belong to preceeding interval	0.8		0.6	$\dashv$	o. 56
(6335.7-8336.5)• (376.9 - 8379.9	as a single unit.  Wacke, thin quartz wacke? base, madium grey, basal zone broken. Possibly slightly			1839		
8336.5-8339.5)•		3.0		4.3 1882	₩	1. 57.
979.9 - <b>8390.5</b> 8339.5-8349.9)•	Subwacks/argillite with less than 10 cm hard wacks at the base, light, somewhat silky grey. Planar, dark grey, thin laminations are generally spaced at about 10 cm intervals, except 8383.0 - 8384.3' where specing is 5 to 10 mm. A small number of these laminae have calcite and minor pyrrhotite. There is a constant change in core engle in the 8383 - 8384.3' interval from 71°, then necessary to	10.6	-	9.0 197.2	_	2. 60.
	turn core about 90° through 70°, to 60°, then at 8386.5' bedding changes from 35° to 85° in the opposite sense with cleavage about 65° - 70° between the limbs.		L			
8390.5 - 8397.0 (8349.9-8356.3)•		6.5	┺-	3.7	ιι	1.
	pyrrhotite. Chlorite noted in a few small patches. Some laminations are convoluted.	$\vdash$	ota	200.9		61.
397.0 - 8404.0 8356.3-8363.2)+	Subwacke with wacke below 8402.0', single bed, light medium grey, faint grey detached to locally continuous laminations at about 350 to core. Pyrrhotite is rare and	<u> </u>	<u> </u>	$\sqcup$	Ш	L
0330.3-0303.2/-	is found primarily as very fine grains. Chlorite, accompanied by minor pyrrhotite	7.0	L	4.0		<u>h.</u>
	and a few grains of aphalerite is present in several fine fractures near 8402'. One prominent darker grey lamination 2 as wide cuts core at 35° @ 8402.5'.		┖	2049	Ш	Ġ
			厂	igsqcup	_	Ļ
, <b>-</b>	• First set of footages as per footage blocks, bracketed footages are true feet.	٠	╄	╀┻┦	$\vdash$	L
					1	31
orill Hole Reco	rd Caminos Page 57					
roperty SULL IVAN	District Hestern Hole No. DDH6464					
ommenced	Location Tests at Hor. Comp.				ı	
ompleted	Core Size Corr. Dip Verl. Comp.	_]				
-ordinates	True Brg. Logged by			å		
jective	% Recov. Date	E	T Brg.	i !	اد	enoth
7				3_	Š E	ie.
Descr To	ption	Anah	Leps .			_
			_		$\neg$	_
404.0 - 8414.8 8363.2-8373.8)*	Single graded bed, argillite to 8408', subwacke to 8409.5' (roughly), wacke to			1 E		_
	patches (some with chiorite cores) up to 2 cm long are present help \$400' The	10.8		6.2	ft.	1.
	patches (some with chlorite cores) up to 2 cm long are present below 8409'. The wacke appears to be fine grained in several places, the guartz wacke is fine grained	10.8	_	-	_	-
	patches (some with chlorite cores) up to 2 cm long are present below 8409'. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sherp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subvaries. Several grains one and the several grains of the several grains of the several grains.	10.8	_	6.2 2111	_	-
414.8 - 8417.0 8373.8-8376.0)•	patches (some with Chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal Contact is sharp and appears flat at 35° to core. Fine partybolic is	2.2		211.1 1.9		131 _   oi
8373.8-8376.0)• 417.0 - 8421.0	patches (some with chlorite cores) up to 2 cm long are present below 8409'. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is dissuminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10sm) of sphalarite occur between 8407.0 and 8409.0'.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417'.  Subwacks/wacks/quartz wacks, medium gray, mincle bed? - hard zones, within suggest.	2.2		211.1 1.9 2110		
8373.8-8376.0)• 417.0 - 6421.0	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? ~ hard zones within suggest either more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrhotite noted in one			211.1 1.9		54 L D. 6 1.
8373.8-8376.0)+ 417.0 - 6421.0 8376.0-8379.9)+	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium gray, single bed? - hard zones within suggest mither more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, single bed medium gray, fairly homogeneous. Broken in the	2.2		211.1 1.9 2110 3.5 2165		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8373.8-8376.0) • 417.0 - 8421.0 8376.0-8379.9) • 421.0 - 8424.5 8379.9-8383.4) •	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is dissuminated throughout the ergillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? - hard zones within suggest mither more beds or some unusual form of remedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, single bed medium grey, fairly homogeneous. Broken in the bottom 2 feet.	4.0		211.1 1.9 2130 3.5 216.5 2.7 219.2		64   D. 66   1. 66   D. 66
8373.8-8376.0) • 417.0 - 8421.0 8376.0-8379.9) • 421.0 - 8424.5 8379.9-8383.4) •	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium gray, single bed? - hard zones within suggest mither more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, single bed medium gray, fairly homogeneous. Broken in the	2.2		211.1 1.9 2110 3.5 2165		54 1. 66 0. 66 0.
8373.8-8376.0) • 417.0 - 8421.0 8376.0-8379.9) •  421.0 - 8424.5 8379.9-8383.4) •  424.5 - 8427.1 8383.4-8385.9) *	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is dissuminated throughout the ergillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? - hard zones within suggest mither more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, single bed medium grey, fairly homogeneous. Broken in the bottom 2 feet.  Missing - 2.4° of core loss for run ending at 8433° is essumed in broken zone here where some grinding of core is noted.	4.0		2111 1.9 2110 3.5 2165 2.7 2192 2.0		54 1. 66 0. 66 0.
(8373.8-8376.0) = (8417.0 ~ 6421.0 (8376.0-8379.9) = (421.0 ~ 8424.5 (8379.9-8383.4) = (424.5 ~ 8427.1 (8383.4-8385.9) *	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? - hard zones within suggest either more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, mingle bed medium grey, fairly homogeneous. Broken in the bottom 2 feet.  Missing - 2.4° of core loss for run ending at 8433° is essumed in broken zone here where some grinding of core is noted.  Wacks/subwacks with more short harder zones, medium grey, continuously laminated with fine, slightly derker grey, even parallel laminations. Chlorite and some pyrrbotite ecettered clong a few of the laminations and rerely concentrated in 1 - 3 mm thick layers. Rere chlorite and pyrrhotite walna noted. Fine digraminated	4.0		11.9 211.0 3.5 216.5 2.7 219.2 2.0 221.2		64 1. 66 0. 67
8417.0 - 8421.0 (8376.0-8379.9)+ 8421.0 - 8424.5 (8379.9-8383.4)+ 8424.5 - 8427.1 (8383.4-8385.9)+ 8427.1 - 8434.4	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is dissuminated throughout the ergillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalarite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? - hard zones within suggest mither more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, single bed medium grey, fairly homogeneous. Broken in the bottom 2 feet.  Missing - 2.4° of core loss for run ending at 8433° is essumed in broken zone here where some grinding of core is noted.  Wacks/subwacks with some short harder zones, medium grey, continuously laminated with fine, slightly derker grey, even parallel laminations. Chlorite and some pyrrhotite ecettered elong a few of the laminations and rerely concentrated in 1 - 3 mm thick layers. Rere chlorite and pyrrhotite veins noted. Fine discominated pyrrhotite and a few grains of aphalarite noted in the poper 2 and layers? Active pyrrhotite and a few grains of aphalarite noted in the poper 2 and layers?	2.2 4.0 3.5		211.1 1.9 2130 3.5 216.5 2.7 219.2 2.0 221.2		0. 64 1. 66 0. 67
(8373.8-8376.0) = (8417.0 ~ 6421.0 (8376.0-8379.9) = (421.0 ~ 8424.5 (8379.9-8383.4) = (424.5 ~ 8427.1 (8383.4-8385.9) *	patches (some with chlorite cores) up to 2 cm long are present below \$409°. The wacke appears to be fine grained in several places, the quartz wacke is fine grained. The basal contact is sharp and appears flat at 35° to core. Fine pyrrhotite is disseminated throughout the argillite and subwacks. Several grains, one small gash and one diffuse patch (3X10mm) of sphalerite occur between 8407.0 and 8409.0°.  Argillite/subwacks/wacks/quartz wacks, 3 beds? (some broken), minor bleaching on some fractures in the quartz wacks. Bedding to core 60° 8 8417°.  Subwacks/wacks/quartz wacks, medium grey, single bed? - hard zones within suggest either more beds or some unusual form of resedimentation. The mediment is fairly homogeneous in appearance. Chlorite, minor calcite and pyrrhotite noted in one 5 mm wide fracture and a few small patches.  Wacks/quartz wacks, mingle bed medium grey, fairly homogeneous. Broken in the bottom 2 feet.  Missing - 2.4° of core loss for run ending at 8433° is essumed in broken zone here where some grinding of core is noted.  Wacks/subwacks with more short harder zones, medium grey, continuously laminated with fine, slightly derker grey, even parallel laminations. Chlorite and some pyrrbotite ecettered clong a few of the laminations and rerely concentrated in 1 - 3 mm thick layers. Rere chlorite and pyrrhotite walna noted. Fine digraminated	2.2 4.0 3.5		11.9 211.0 3.5 216.5 2.7 219.2 2.0 221.2		0.64 1.66 0.66 0.17

. First set of footeges as per footege blocks, bracketed footeges are true feet

	rd		Cominoo Page 58	1 1	İ		1
		Hole No. DDH6464	<b>\$</b> -\$				İ
roperty SULL TVAN	District Western  Location	Tests Al	Har, Comp.				
commenced	Core Size	Corr. Dip	Vert. Comp.	7			
completed		True Brg.	Logged by	7		d O	
bjective		% Recov.	Date	Cleim	T 8rg.	Cotter Dip	Elev.
				S Analy		8_	ů
on To	noitq			Analy			
8434.4 - 8436.2	Wacke with 10 cm quartz wacke	hase. light medium gray wit	h slightly darker allietics:	$\downarrow \downarrow$		<u> </u>	
(8393,1-8394.9)*	patches up to 4X10 mm. A 1 The quartz wacke base has be wiltite. Bedding to core 490.	few thin veinlets of chlor srely recognizable quartz	ite with minor pyrrhotite.	1.8		1.4 227.0	ft.
436.2 - <b>8436.5</b> 8394.9~8395.2)•	Subwacke/wacke/quartz wacke, s melvage along contact between in quartz wacke is visually si	wacke/quartz wacke. Basal	contact of faint laminations	0.3	-	0.2	
8436.5 - 8439.0	•						
8395.2-8397.6)*	Subwacke, medium grey, lami intervals up to 2 cm that are laminated and and is argillite	not laminated. The bottom	20 cs is not as distinctly	2.5		1.7 228.9	
439.0 - 8445.0	Single bed: argillite (10 cm),				_	_	<u> </u>
8397.6-8403.5)•	wacke (10 cm), medium gray, by wacke is very fine grained.			6.0	<del> </del>	4.2	
	and basal 40 cm; minor pyrrhot material.			$\vdash$		233.1	-
				7.8	┝╾	6.8	
445.0 - 8452.8 8403.5-8411.2)*	Single bod, subvacke to 84 quartz wacke (perhaps a secon			/···	_	2399	<del></del>
	subvacke and ports of the war ca. One pyrrhotite clast 5X10 wacke is (very) fine grained.	cke. Isolated pyrrhotite ) we contains aphalerite.	grains, up to 1 per square		_	_	
452.8 - 8453.6	Argillito/subwacke/wacke, thre	e thin beds, some distinct	flat contacts and internal	0.8	$\vdash$	0.7	
	contacts, portions are faintly			N-8-,	⇈	240.6	
453.6 - 8457.0	Subvecke (very argillaceous)	/argillite, flat parallel	laminations throughout.	3.4	<del> </del>	3.0	
8412.0~8415.4).	few very short intervals have	no laminations. Distinct a	peckled pyrrhotite texture		1	2436	
1 -	• First set of footeges as per	footage blocks, bracketed	footages are true feet.		<u> </u>	<u> </u>	L
Property SULL IVAN	District Western	DDH6464	Cominon Page 59	j l		1	1
Toperty		Hole No.	• •		l		
Commenced	Location	Hole No. Tests et	Hor. Comp.				
		Hole No.	Hor. Comp.  Vert. Comp.				
Completed	Location	Hole No. Tests et				Dig.	
Completed Co-ordinates	Location	Hole No. Tests et Corr. Dip	VerL Comp.	wjej	Brg.	olfer Dip	lev.
Completed Co-ordinates Objective	Location Core Size	Hole No. Tests at Corr. Dip True Brg.	VerL Comp. Logged by	S C C C C C C C C C C C C C C C C C C C		Coller Dip	Elev.
Completed Co-ordinates Objective	Location	Hole No. Tests at Corr. Dip True Brg.	VerL Comp. Logged by			Coller Dip	Elek.
Completed Co-ordinates Objective Outcoe  Cosco	Location Core Size	Hole No. Tests at Corr. Dip True Brg. % Recov.	Vert Comp.  Logged by  Date  se and are aligned within			Coller Dep	Elex
Completed Co-ordinates Objective Outcoe  Cosco	Location  Core Size  Core Size  Ipilon  throughout; the pyrrhotite grathe cleavage. One small clusted bedding to core 630 \$ 8456'.	Hole No. Tests at Corr. Dip True Brg. % Recov.  Tains are up to 2 as acrosser of pyrrhotite at 8456'	VerL Comp.  Logged by  Date  se and are aligned within contains minor aphalerite.	Anet	yele		
completed co-ordinates bipactive  parage Description Ta	Location  Core Size  iplion  throughout; the pyrrhotite grathe cleavage. One small clusted bedding to core 630 \$ 8456'.  Argillite, light and medium	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  sains are up to 2 ss acroster of pyrrhotite at 8456'  grey. Wieps and blebs of	VerL Comp.  Logged by  Date  se and are aligned within contains minor aphalerite.		yele	1.6	ft
Completed Co-ordinates Discrive  Description 10 004598 0457.0 - 8458.8 (8415.4-8417.1) + 8458.8 - 8476.0	Location  Core Size  Core Size  throughout; the pyrrhotite grathe cleavage. One small clusted bedding to core 630 \$ 8456'.  Argillite, light and medium a few fine grains and laminate Possibly one bed (detached)	Hole No.  Tests at  Corr. Dip  True Brg. % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blabs of ions below.  Lexinations and possibly of	Vert Comp.  Logged by  Date  se and are aligned within contains minor aphalerite.  pyrrhotite in top 10 cs.	Anet	yele		ft
ompleted o-ordinates bjective  parage	Location  Core Size  Core Size  throughout; the pyrrhotite grathe cleavage. One small clusted bedding to core 63° € 8456'.  Argillite, light and medium a few fine grains and laminate Possibly one bed (detached present between 8458.8-8460.5)	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  Laminations and possibly of however below that t	VerL Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be the progression is uniform	Anet	yele	1.6	ft
completed co-ordinates bipactive  contage Paris  com Ya  8457.0 - 8458.8  (8415.4-8417.1) •	Location  Core Size  Core Size  throughout; the pyrrhotite grathe cleavage. One small clusted bedding to core 63° \$8456'.  Argillite, light and medium a few fine grains and laminate possibly one bed (detached present between 8458.8-8460.5 and gradational). Argillite grey, to about 8463', wacke,	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  sins are up to 2 mm acrosster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laminations and possibly of hovever below that to pale grey, 8458.8' to a pale grey, 8459', quar	Vert Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacke, medium grey, to	Anet	yele	1.6	ft
Completed Co-ordinates Description Completed Co-ordinates Description Completed Co-ordinates Description Completed Co-ordinates Completed C	Location  Core Size  Core Size  throughout; the pyrrhotite grand the cleavage. One small clusted the cleavage of the cleavage. One small clusted the cleavage of the cleavage	rests at  Corr. Dip  True Brg.  ** Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of tions below.  lazinations and possibly of the pale grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quararenite, brownish, to 8476. ed) pyrrhotite grains; ind	vert Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subvecke, pale tr wacks, sedium gray, to 0'. Texture from 8458.8-8462' ividual grains up to 3 ms	Anet	yele	1.6	ft
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Ompleted Co-ordinates Objective  October 19	Location  Core Size  Core Size  throughout; the pyrrhotite greated the cleavage. One small clusted bedding to core 63° \$ 8456'.  Argillite, light and medium a few fine grains and laminate present between 8458.8-8460.5 and gradational). Argillite grey, to about 8463', wacke, 84°0' (fine grained), quertz heavily disseminated (specklactoss are composed of 20-50 grains are aligned in the composed of 20-50 grains are al	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  sins are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  lazinations and possibly of ions below.  lazinations and possibly of ions below.  pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ed) pyrrhotite grains; ind pyrrhotite and the balance iteavage at 660' to core of a sore equigranular with	Vert Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacks, pale tr wacks, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 me appears to be silt; these prosite to bedding of 640, finely dispersed pyrrhotite	Anet	yele	1.6	ft
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Completed Co-ordinates Description Completed Co-ordinates Description Completed Co-ordinates Description Completed Co-ordinates Completed C	Location  Core Size  Core Size  throughout; the pyrhotite grathe cleavage. One small clusted bedding to core 63° \$8456'.  Argillite, light and medium a few fine graine and laminate possibly one bed (detached present between 8458.8-8460.3 and gradational). Argillite grey, to about 8463', wacke, 8470' (fine grained), quertz heavily disseminated (speckle scross are composed of 20-50 grains are slighed in the cfrom 8462 - 8465' texture and a very small amount of appyrhotite aligned in discont from quartz wacke to quartz and a very was and a count of second control of the control of the control of the control of the control of the count of the control of the cont	Tests at  Corr. Dip  True Brg.  % Recov.  Sains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  lesinations and possibly of however below that to pale grey, 8458.8' to a pale grey, 2458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ed) pyrrhotite grains; ind the property of the pale grey to 8469' and the balance is average at 66° to core of a sore equigranular with the parallel leyers at 3 irenite is broken. The quar irenite is broken. The quar	Vert Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacke, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 me e appears to be silt; these posite to bedding of 64°, finely dispersed pyrrhotite 69' there is slightly more 50 to core. The transition tz arenite is fine grained,	Anet	yele	1.6	ft
Completed Co-ordinates Discrive  Description 10 004598 0457.0 - 8458.8 (8415.4-8417.1) + 8458.8 - 8476.0	Location  Core Size  Core Size  Core Size  throughout: the pyrrhotite grather cleavage. One small clusted bedding to core 63° \$8456'.  Argillite, light and medium a few fine grains and laminate possibly one bed (detached present between 8458.8-8460.3 and gradational). Argillite grey, to about 8463', wacke, 8470' (fine grained), quertz heavily disseminated (specklacross are composed of 20-50 grains are aligned in the cand a very small amount of and a very small amount of appyrrhotite aligned in discontinuation.	Tests at  Corr. Dip  True Brg.  % Recov.  Sains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  lesinations and possibly of however below that to pale grey, 8458.8' to a pale grey, 2458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ed) pyrrhotite grains; ind the property of the pale grey to 8469' and the balance is average at 66° to core of a sore equigranular with the parallel leyers at 3 irenite is broken. The quar irenite is broken. The quar	Vert Comp.  Logged by  Date  se and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacke, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 me e appears to be silt; these posite to bedding of 64°, finely dispersed pyrrhotite 69' there is slightly more 50 to core. The transition tz arenite is fine grained,	Anet	yele	1.6	ft
Completed Co-ordinates Discrive  Description 10 004598 0457.0 - 8458.8 (8415.4-8417.1) + 8458.8 - 8476.0	Location  Core Size  Core Size  Core Size  throughout: the pyrrhotite grathe cleavage. One small clused in the cleavage. One small clused in the cleavage of the small clused in the graine and laminate for fine graine and laminate green to about 8458.8-8460.3 and gradational). Argillite grey, to about 8463', wacke, 8470' (fine grained), quertz heavily disseminated (speck) across are composed of 20-50 grains are sligned in the capacity of the same of the small amount of appyrrhotite aligned in discont from quartz wacke to quartz a dark brownish grey; in thin and 1 tourmaline grain.	Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ad) pyrrhotite grains; ind the pyrrhotite and the balance is a provided at 66° to core of a sore equigranular with shalarite. From 8465 at a sinuous parallel layers at 3 irenite is broken. The quart section >83% quartz, up to the section are section and the section are section and the section are section and the section are section are section and the section are sect	Vert Comp.  Logged by  Date  ss and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be the progression is uniform bout 8461', subwecke, pele tz wacke, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 ms appears to be silt; these prosite to bedding of 64°. finely dispersed pyrrhotite 69' there is slightly more 5° to core. The transition tz aremite is fine grained, o 0.4 mm; biotite, feldspar	1.8 17.2	yalş	1.66245.260.	ft.
Completed Co-ordinates Co-ordin	Location  Core Size  Core Size  throughout; the pyrhotite grathe cleavage. One small clused in the cleavage. One small clused in the cleavage of the cleavage of the cleavage of the cleavage of the claim and few fine graine and laminate few fine graine and laminate few fine graine and laminate few fine graine and laminate few fine grained). Argillite gray, to about 8463', wacke, 8470' (fine grained), quartz heavily disseminated (speckle scross are composed of 20-50 grains are slighed in the care shall amount of appropriate aligned in discont from quartz wacke to quartz a dark brownish gray; in this and 1 tourmaline grain.  Argillite/subwacke, sedium grain.	Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ad) pyrrhotite grains; ind the pyrrhotite and the balance is a provided at 66° to core of a sore equigranular with shalarite. From 8465 at a sinuous parallel layers at 3 irenite is broken. The quart section >83% quartz, up to the section are section and the section are section and the section are section and the section are section are section and the section are sect	Vert Comp.  Logged by  Date  ss and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be the progression is uniform bout 8461', subwecke, pele tz wacke, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 ms appears to be silt; these prosite to bedding of 64°. finely dispersed pyrrhotite 69' there is slightly more 5° to core. The transition tz aremite is fine grained, o 0.4 mm; biotite, feldspar	Anet	yalş	1.6	ft.
Completed Co-ordinates Objective  outage   Descr  8457.0 - 8458.8 (8415.4-8417.1)*  8458.8 - 8476.0 (8417.1-8434.0)*  8476.0 - 8476.3 (8434.0-8434.3)*	Location  Core Size  Core Size  Core Size  throughout; the pyrrhotite grathe cleavage. One small clused in the cleavage of the small clused in the cleavage of the small clused in the graine and leminate for fine graine and leminate green to about 8453.8-8460.3 and gradational). Argillite grey, to about 8463', wacke, 8470' (fine grained), quartz heavily disseminated (speckleavily disseminated (speckleavily disseminated (speckleavily disseminated (speckleavily disseminated in the core of small amount of grains are slighed in the core and a very small amount of appyrrhotite aligned in discont from quartz wacke to quartz a dark brownish grey; in this and 1 tourmaline grain.  Argillite/subwacke, sedius gr	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ad) pyrrhotite and the balance with pyrrhotite and the balance leavage at 66° to core of a sore equigranular with shalerite. From 8465 at a sinuous parallel layers at 3 renite is broken. The quar acction >83% quartz, up to ay, flecked with pyrrhotite	Vert Comp.  Logged by  Date  ss and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacks, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 mm appears to be silt; these pposite to bedding of 64°, finely dispersed pyrrhotite 69' there is slightly more 5° to core. The transition tz eremite is fine grained, o 0.4 mm; biotite, feldspar grains.	1.8 17.2	yala	1.6 245: 15.5 260. 0.2 260.	ft.
Completed Co-ordinates Objective  Control  Contr	Location  Core Size  Core Size  throughout; the pyrhotite grathe cleavage. One small clused in the cleavage. One small clused in the cleavage of the cleavage of the cleavage of the cleavage of the cleavage of the classical of the cleavage of the classical of the cleavage of the classical of the	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ad) pyrrhotite and the balance with pyrrhotite and the balance leavage at 66° to core of a sore equigranular with shalerite. From 8465 at a sinuous parallel layers at 3 renite is broken. The quar acction >83% quartz, up to ay, flecked with pyrrhotite	Vert Comp.  Logged by  Date  ss and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacks, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 mm appears to be silt; these pposite to bedding of 64°, finely dispersed pyrrhotite 69' there is slightly more 5° to core. The transition tz eremite is fine grained, o 0.4 mm; biotite, feldspar grains.	1.8 17.2	yala	1.6 245: 15.5 260. 0.2 260.	ft.
Completed Co-ordinates Objective  Octoge To  8457.0 - 8458.8 (8415.4-8417.1) 8458.8 - 8476.0 (8417.1-8434.0) 8476.0 - 8476.3 (8434.0-8434.3) 8476.3 - 8478.0	Location  Core Size  Core Size  throughout; the pyrhotite grathe cleavage. One small clused in the cleavage. One small clused in the cleavage of the cleavage of the cleavage of the cleavage of the cleavage of the classical of the cleavage of the classical of the cleavage of the classical of the	Hole No.  Tests at  Corr. Dip  True Brg.  % Recov.  Tains are up to 2 as acroster of pyrrhotite at 8456'  grey. Wieps and blebs of ions below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house below.  laxinations and possibly of house grey, 8458.8' to a pale grey, 8458.8' to a pale grey, to 8469', quar arenite, brownish, to 8476.  ad) pyrrhotite and the balance with pyrrhotite and the balance leavage at 66° to core of a sore equigranular with shalerite. From 8465 at a sinuous parallel layers at 3 renite is broken. The quar acction >83% quartz, up to ay, flecked with pyrrhotite	Vert Comp.  Logged by  Date  ss and are aligned within contains minor sphalerite.  pyrrhotite in top 10 cs.  ne or two thin bed may be he progression is uniform bout 8461', subwacke, pale tz wacks, medium grey, to 0'. Texture from 8458.8-8462' ividual grains up to 3 mm appears to be silt; these pposite to bedding of 64°, finely dispersed pyrrhotite 69' there is slightly more 5° to core. The transition tz eremite is fine grained, o 0.4 mm; biotite, feldspar grains.	1.8 17.2	yalş	1.6 245: 15.5 260. 0.2 260.	ft.
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operty SULLIVAN	District Western	Hole No. DDH6464	<b>~</b>					
mmenced	Location	Tools at	Hor, Comp.		l			
ompleted	Core Size	Cort. Dlp	Vert. Comp.			اما		
-ordinates		True Brg.	Logged by	_	نہ	å		5
jective		% Recov.	Date	Claim	j. Drū	Collec	E .	ugua
Nage Descri	ption	· · · · · · · · · · · · · · · · · · ·		Anah		1 1	ш	<u> </u>
478.0 - 8506.0	Subvacke, medium grey, with ex	contion of a few thin b	eds shows about 8484', this					
	interval is discontinuously le	minated with almost u	niforaly (decreasing below	28.0	ļ	25.0	_	7. 87.
	8497') disseminated pyrrhotite (10 cm), 8487' (5 cm), 8495' (10			<b> </b>	<u> </u>	287.4		<u> </u>
	and lithic cleats) ere interpressell veins. Pyrrhotite layers			-	<del> </del>	<del> </del>	-	┞
	interval define bedding. Las	inations indicate bedd	ing is contorted and often		├	╀╌┧		┝
	detached with diffuse termination deformation of unstable rapidly			-   -	$\vdash$	Н		ŀ
	accompanying abundant wispy pyra				<del>                                     </del>	Н	_	t
	cm at 8501' (8458.6').				⇈	1		t
3506.0 - 8532.0 (8463.6-8489.2)=	Yacke/aubwacke, apparently a co- lithic and textural change is no			26.0	•	23.6		7
	present but in much reduced prop	ortions. Small irregula	r lithic inclusions, occasions	.2		31 LQ		9
	faint discontinuous leminations era noted. A 2 cm wide quartz							ľ
	grain of black)ack, runs near! (\$481.27), such of the alteret						_	l
	garnets, pale brown patchy erest of the alteration.			<u> </u>	<u> </u>	$\sqcup$		ļ
				<u> </u>	├-	ļ	_	ļ
532.0 <b>- 8535.</b> 0 8489.2-8492.1) <b>-</b>	Subwacke/wacke, top and bottom p in the middle, medium grey, ac			3.0	-	2.9	-	l
	67°.		· · · · · · · · · · · · · · · · · · ·	-	-	313,8		ł
					!-			t
535.0 - <b>8546.5</b> 8492.1-8503.4)=	Subvacke/wacke, light medium gre- wisp and veinlet with pyrrhotite	y, pyrrhotite flecked in and calcite. Hild ch	vague leminations, occasional lorite apotting and aubtle	11.5	<del> </del>	10.6	$\vdash$	Ì
	large mottling (bleached area			1	1	324.4		١
! <b>*</b>	· First set of footages as per f	ootege blocks, bracketed	footages are true feet.					Į
								1
			<b>6-6</b>		 I	1 1		•
orill Hole Reco	rd	, <u> </u>	Cominon Page 61					•
orill Hole Reco	rd Disirict Western	Hole Na. DDH6454	4-4					
operty SULL TVAN	District Western Location	Tests at	Hor. Comp.					*
operty SULL IVAN	District Western	Tests at Corr. Dip	Hor. Comp. Vert. Comp.			0		*
operty SULL IVAR immenced impleted i-ordinates	District Western Location	Tests at  Corr. Dip  True Brg.	Hor. Comp.  Vert. Comp.  Logged by		Ġ.	r Dip		
operty SULL IVAR immenced impleted i-ordinates	District Western Location	Tests at Corr. Dip	Hor. Comp. Vert. Comp.	Cleim	T 1870.	Coller	Elev.	
operty SULL IVAN ommenced ompleted o-ordinates ojactive Descr	District Western  Location  Core Size	Tests at  Corr. Dip  True Brg.	Hor. Comp.  Vert. Comp.  Logged by	E SO	Dirita to large	Coller	Elev.	
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operty SULL IVAN mmenced mpleled -ordinates ejective Mage Descr	District Western Location Core Size  Uplion this has pre-lithification defe	Tests at Corr. Dip True Brg. % Recov.  Dipartion feetures such cases obscured by altera	Hor. Comp.  Vert. Comp.  Logged by  Date  as cleats and discontinuous tion.	Anal	lysla -	Coller		
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. First set of footages as per footage blocks, bracketed footages are true feet.

Drill Hole Reco	District Hestern	Hole No. DDH6464	Comince Page 62					
Commenced	Core Size	Corr. Dip	Vert. Comp.			1		1
Completed	CON SIZE	True Brg.	Logged by	_	i		'	1
Co-ordinales		% Recov.	Date		7 Brg.	Coller Olp	<u>.</u>	Length
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Foolage Descr	intion			Anal	/# is	$\equiv$		$\equiv$
rom To	· · · · · · · · · · · · · · · · · · ·				┢	<del> </del>	<del> </del>	₩
	8560.5' (8517.2'). Vague possibl to core 8554 - 8571'. Bedding t (?vague) at 8566', 25° 8 8571', 7	to core: 42º 8 8552'.	29° to 15° 9 8558', 25°				-	F
8575.0 - 8578.0	Bedly broken, Sedimentary roc	rke a continuation of	province internal at the	3.0	Г	2.5	ft	0.76
	5.0 - 8578.0 Bedly broken. Sedimentary rocks, a continuation of previous interval. A few 91.5~8534.5) fragments have minor slickenside development.				_	345.5	1, 22	105.3
8578.0 - 8700.0 (8534.5-8654.5)*	the second secon				F	F	F	F
	grained. Igneous textured rock, possibly granophyre or altered gobbro to 8650', small intense shear zone 8650 - 8657' on margin of patchy quartz vein 8657 - 8658';							
	fine grained gabbro, light green; but darker to 8597's medium	ish grey, with minor biot grained to 8700'. Nume	ite and pyrrhotite; similar	}	<b>├</b>		<b>├</b> —	<del></del>
	with quartz cut the gabbro. A were noted, some with minor pyrrh	small number of veins,	all less than 1 cm wide		上		上	上
8700.0 - 8734.0 (8654.5-8688.0)*	0 - 8734.0 Grenophyre, light grey, equigranular biotite-quartz rock having an igneous texture. .5-8688.0)* A few small lithic fragments, typical of granophyre elsewhere, are present. Rare			$\vdash$	-	$\vdash$	╀	
nerrow quartz voins (<1 cm) and veinlets are pre-				$\vdash$	+-	+-	+	+
					+	+	+	+
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# APPENDIX B

NOVEMBER 27, 1986

# SULLIVAN MINE GROUP OF MINERAL CLAIMS

		Number of	f Units
1.	Crown-Granted M.C.		680
2.	Held by Assessment:		
	2(a) TWO POST CLAIMS		
	Luke Group Rho Group Med Group Donna, Etc. Group Uke Group Mar Group Bad Group Late Group Mat Group Jackpot	75 20 15 15 11 17 36 91 268	549
	2(b) REVERTED CROWN GRANTED MINERAL CLAIMS		
	Tip 4-12 Hope 2-12 Sun 2-12 Cue 2-12 B.C., Silver Bell, Tarrant Black Hills, Yankee Girl, Wasp Fr. Blue Dragon	9 11 11 11 3 3	49
	2(c) MINERAL CLAIMS (54)		
	Dip 1-8 Fal 1-14 Golf 1-3 Quark 1&2 Fin 1-3 Mead 1-3 Gin 1-9 Clair 24-32 Mark 1-3	56 84 17 12 18 36 110 56	406
3.	Greenhorn Mineral Lease		1
	GRAND TOTAL (1 + 2 + 3)		1,685

## APPENDIX C

# STATEMENT OF EXPENDITURES

# DDH 6464

# DIRECT COSTS

Contractor:

Connors Drilling Ltd.

2007 West Trans Canada Highway Kamploops, B.C. V1S 1A7

Drilling 5701' - 8699', all invoices

\$289,436.29

Direct costs = \$289,436.29

## INDIRECT COSTS

Salaries:

P.W. Rensom - Geologist - supervision, core logging,

report 62 days @ \$250/day \$ 15,500.00

Supplies: Mud - gel and core boxes 50,542.25

Transportation:

Geologist 4X4 truck - 62 days @ \$40/day 2,480.00

Other Contractors:

Scanland's Vacuum Tankers, Cranbrook, B.C. 1,732.50

Indirect costs = \$ 70,254.75

Total Direct + Indirect costs = \$359,691.04

Project Geologist

# APPENDIX D

# IN THE MATTER OF THE

#### B.C. MINERAL ACT

AND

IN THE MATTER OF A DIAMOND DRILLING PROGRAM CARRIED OUT ON THE TELFER AND BURGESS GROUPS

## KIMBERLEY AREA

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

More Perticularily N.T.S. 82F/9

# AFFIDAVIT

- I, P.W. Ransom, of the rural district of Wycliffe, 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 "C" to this my Affidavit is a true copy of expenditures incurred on a Diamond Drill program, on the Telfer and Burgess mineral claim groups.
- 3. That the said expenditures were incurred between the 5th day of August, 1988 and the 8th day of October, 1988 for the purpose of mineral exploration on the above noted claim groups.

P.W. RANSOM Project Geologist

## APPENDIX E

# STATEMENT OF 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 since 1966.

I am a member of the Geological Association of Canada.

I supervised Cominco Ltd.'s Sullivan Mine area exploration drilling program in 1988.

P.W. RANSOM, G.A.C.