Province of **British Columbia** 

MAY 21 1986 Ministry of Energy, Mines and

**ASSESSMENT REPORT** 

Petroleum ResourceLD COMMISSIONER TITLE PAGE AND SUMMARY

FORT STEELE MINING DIVISION

Ed Oslund  Date Statement of Exploration and Development filed May 21, 1986  PROPERTY NAME(S)  Sullivan Mine  COMMODITIES PRESENT  A9, Pb, Zn, Fe  BC. MINERAL INVENTORY NUMBER(S), IF KNOWN  S2F/NE-52  MINING DIVISION  Fort Steele  ATITUDE 49, 41.9  LONGITUDE  NTS 82.6/12W, 62.F/9E  LONGITUDE  LON	<b>Y</b>	TYPE OF REPORT/SURVEY(S)	CRANBROOK, B.C.	TOTAL COST
Ed Oslund  Date Statement of Exploration and Development filed May 21, 1986 Year of Work 1989  PROPERTY NAME(S) Sullivan Middle  DOMMODITIES PRESENT A9, Pb, Zn, Fe  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 82.F/NE-52  MINING DIVISION FOrt. Steele NTS 82.6/12W, 92.F/9E  ATTITUDE 49, 41.9' LONGITUDE NTS 82.6/12W, 92.F/9E  AS SEES NTS 81 PM F NTS 82.6/12W, 92.F/9E  AS SEES NTS 81 PM F NTS 82.6/12W, 92.F/9E  AS SEES NTS 81 PM F NTS 82.6/12W, 92.F/9E  AS SEES NTS 81 PM F NTS 82.6/12W, 92.F/9E  ANAILING ADDRESS  Box 2000  Kimberley, 8.C. V1A 2G3  DEFRATOR(S) (that is, Company paying for the work)  1) As Above  FILMED  SUMMARY GEOLOGY (tithology, 20, structure, alteration, mineralization, stap, and attitude):  The drill holes were collared in sedimentary rocks of the Lower Aldridge, Formation, and penetrated layered  Sphalerite, 32 leng Phyrrhotite Sulphides, The drill pragram, provided			Drilling (undergrou	md) \$30,896.60
COMMODITIES PRESENT A9, Pb, Zn, Fe  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  BINING DIVISION FORT Steele NTS 82.6/12W, 52.F/9E  LONGITUDE 106 NTS	AUTHOR(S)		SIGNATURE(S)	B. Reigh W Osland
COMMODITIES PRESENT A9, Pb, Zn, Fe  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN B2.F/NE-52  BINING DIVISION FORT Steele NTS 82.6/12W, 52.F/9E  LONGITUDE 106 NTS	DATE STATEMEN	IT OF EXPLORATION AND DEVEL	OPMENT FILED May 21, 1986	YEAR OF WORK 1980
ASSESSIME DEPERATORS) (littology, age, structure, alteration, mineralization, size, and ettitude):  ASAGIZW, 82F/9E  NTS 826/12W, 82F/9E  NTS 826/12W, 82F/9E  NTS 826/12W, 82F/9E  NTS 826/12W, 82F/9E  LONGITUDE				
MINING DIVISION Fort Steele NTS 82.6/12W, 82.F/9E  ATITUDE 49. 41.9.  LONGITUDE 116°00.6  NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIR 12 units]. PHOENIX (Lot 1706): Mineral Lease M 123; Mining or Certified Mining Lease M 12 (claims involved)]:  Cut 2-6 (5 units total), Hope z-6 (5 units total), Sun z-6 (5 units total), Tip 4-6 (3 units total), Mark 1-3 (3 units total), Alta Fr. (Lot 12001),  Stoney Fr. (Lot 4051)  DOWNER(S)  Cominco Ltd.  (2) GEOLOGICAL BRANC  ASSES SING FIRM FOR PARAMANA  ASSES SING FIRM FOR PARAMANA  ASSES SING FIRM FOR PARAMANA  MAILING ADDRESS  Box 2000  Kimberley, B.C. V1A 2G3  DPERATOR(S) (that is, Company paying for the work)  1) As Above  FILMED  SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  The drill holes were collared in sedimentary rocks of the Lower  Aldridge, Formation, and penetrated layered.  Sphalerite, 9-1 eng Payrrhafter Sulphides. The drill program provided.	COMMODITIES PR	RESENT . Ag, Pb, Zn, F	e	******************
ATITUDE 49.41.9.  ATITUDE 49.41.9.  NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIR 12 units); PHOENIX (Lot 1706); Mineral Lesse M 123; Mining or Certified Mining Lesse ML 12 (claims involved)):  Cut. Z - 6. (5 units total), Hope z - 6 (5 units total), Sun z - 6 (5 units total), Tip. 4-6. (3 units total), Mark 1-3 (3 units total), Alfa Fr. (Lot 12001), Stoney Fr. (Lot 4051).  DWNERIS)  Cominco Ltd.  (2) G C C C L BRANC  ASSESSING FIRM FOR TOTAL BRANC  ASSESSING FOR TOTAL BRANC  AS	B.C. MINERAL IN		82.F/NE-52.	
Cue 2-6 (5 units total), Hope 2-6 (5 units total), Sun 2-6 (5 units total)  Tip 4-6 (3 units total), Mark 1-3 (3 units total), Alfa Fr. (Lot 12001),  Stoney Fr. (Lot 4051)  DWNER(S)  Cominco Ltd.  C	MINING DIVISION LATITUDE 49	H.9' 9	NTS .8	26/12W, 52F/9E
Tip 4-6 (3 units total), Mark 1-3 (3 units total), Alta Fr. (Lat 12001), Stoney Fr. (Lat 4051)  DWNER(S)  Cominco Ltd.  Cominco				
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MAILING ADDRESS  As Above  As Above  FILMED  SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  The drill holes were collared in sedimentary rocks of the Lower  Aldridge Formation and penetrated layered.  sphalerite, galeng pyrrhotite sulphides. The drill program provided	MAILING ADDRE			
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SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  The drill holes were collared in sedimentary rocks of the Lower  Aldridge Formation and penetrated layered.  sphalerite, galeng pyrrhotite sulphides. The drill program provided			(2)	
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Aldridge Formation and penetrated layered sphalerite galeng pyrrhotite sulphides. The drill program provided	SUMMARY GEOL	OGY (lithology, age, structure, alteration	n, mineralization, size, and attitude):	
sphalerite, galeng pyrrhotite sulphides. The drill program provided	The	drill holes were collar	ed in sedimentary rocks of	f the Lower
grade and mining hanging wall information.	sphalerit	Aldridge Formatic	on, and penetrated layered. Sulphides. The drill	program provided
	grade a	end mining hanging	wall information.	
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COMINCO LTD.
Sullivan Mine
Kimberley Operations

BC Geological Survey Assessment Report 15128

## SULLIVAN MINE GROUP OF MINERAL CLAIMS

December 31st 1985

그는데 뭐라지만 불었다. 아들 말리다 중요 그리고 있다고 있는데 뭐라고 하다.	Number of Unit
Crown-Granted M.C.	
는 사람들은 경기를 보고 있는 것이 되었다. 이 사람들은 사람들은 사람들이 되었다. 그런 사람들은 사람들은 사람들이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	680
Held by Assessment:	
Luke Group	
Rho Group	75
Med Group	20
Donna, Etc. Group	15
Uke Group	15 11
Mar Group	17
Bad Group	36
Late Group	91
Mat Group	268
Jackpot	
8 Dip M.C.	56
14 Fal M.C.	84
3 Golf M.C.	17
2 Quark M.C.	12
7 Reverted 2 Post Crown-Granted 3 Fin M.C.	7
	18
Tip, Sun, Hope, Cue Reverted Crown-Granted M.C. 3 Mead M.C.	24
9 Gin M.C.	36
그는 회사들의 '목했다'라면 되었다. 학생 교회하다는 생활하는 사람으로 등 생각을 하는 것을 하는 것이다.	110
Clair 24 to 32 Inclusive	56
Mark 1, 2, 3	17
18 Reverted Crown-Granted M.C. (Tip,Sun,Hope,Cue)	<u>18</u>
Sub Total Group 2	1,004
Greenhorn Mineral Lease	
GRAND TOTAL (1 + 2 + 3)	1,685

A.L. Burrows/ml December 31st 1985

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#### INTRODUCTION

Two separate diamond drill core hole exploration programs are being included in this report.

Both programs were drilled within the Sullivan Mine, Kimberley, B.C., which is owned and operated by Cominco Ltd. This mine has operated for 75 years and its Ag, Pb, Zn revenues have contributed to the well being of British Columbia.

The Sullivan Mine is located in the Fort Steele Mining Division at latitude 49° 43' N and 115° 59' W.

The first program consisting of three AX size holes, totalling 80.2 m, were drilled in order to determine the presence of economic sulphides in this fringe area of the mine.

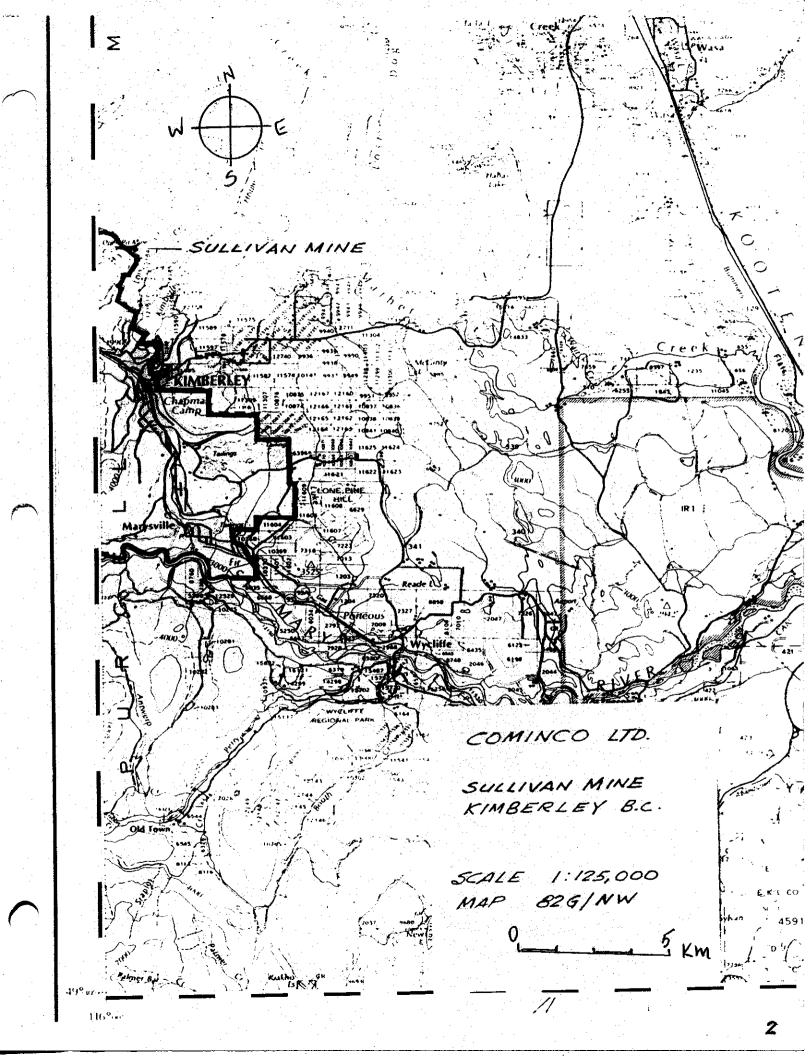
D.D.C.H. No. 6247, 6248, 6249 were drilled on the Alta Fr. (L12001) crowngranted mineral claim.

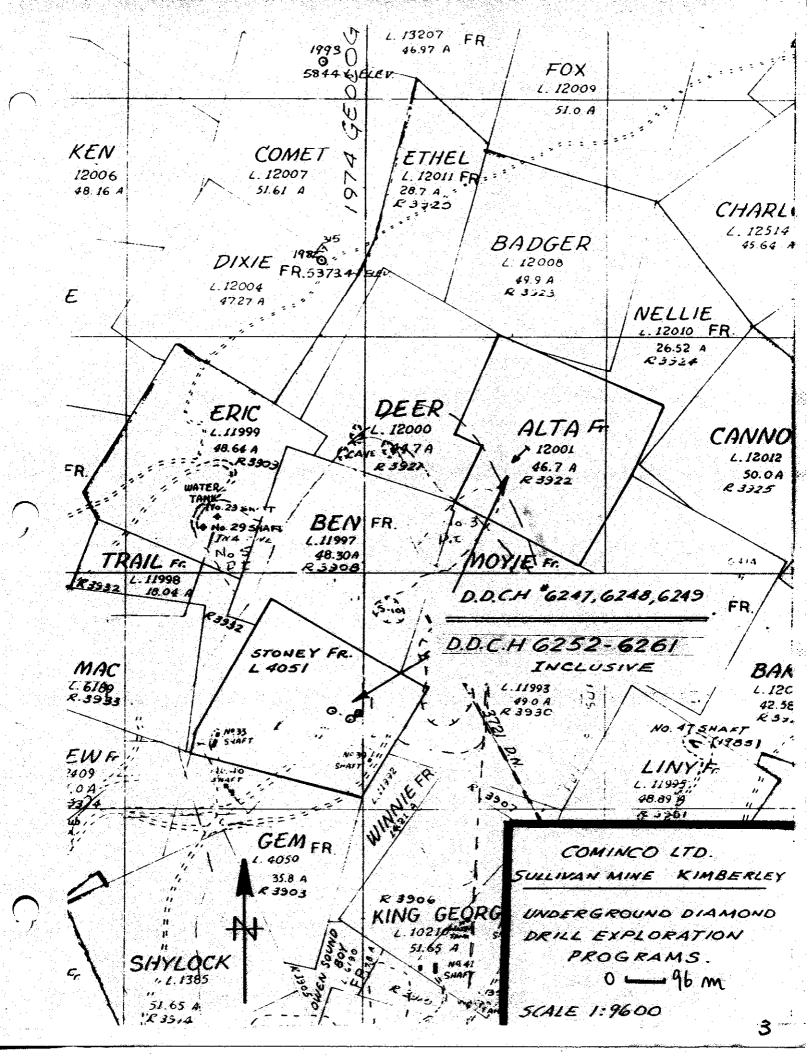
Bruce Reid is the co-author of this part of the report being submitted in May, 1986.

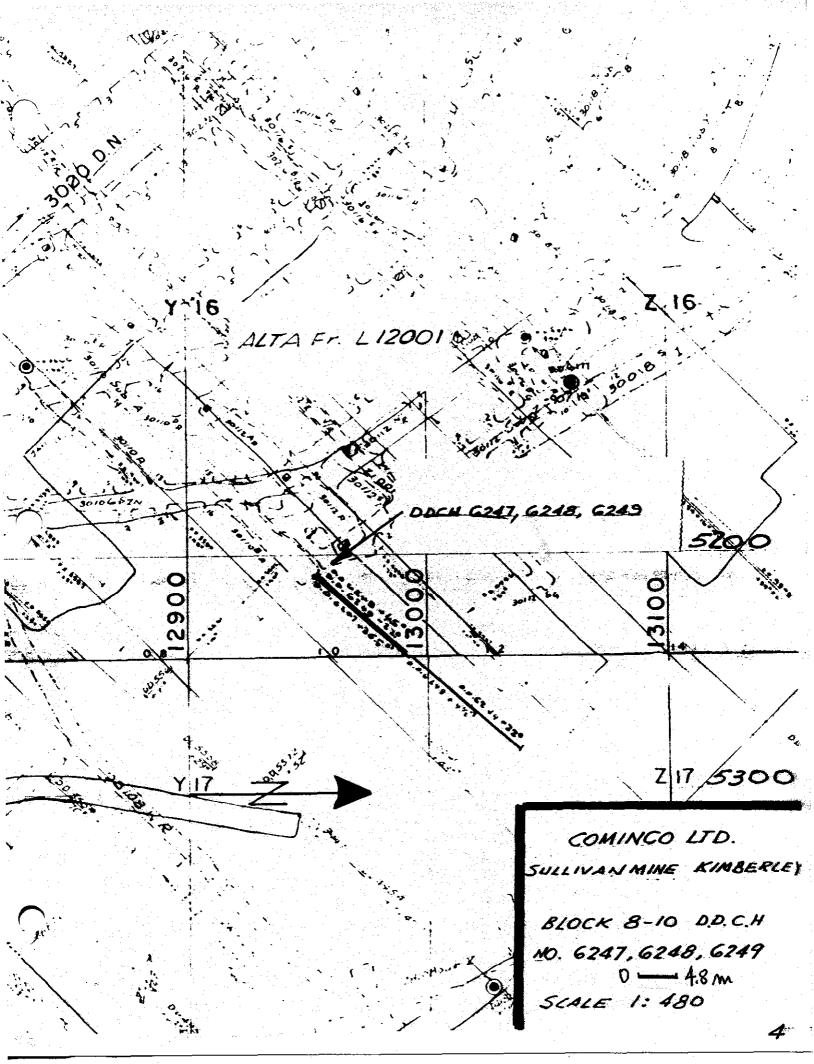
The second program, consisting of 10 AX size diamond drill core holes, was necessary in order to determine the Ag, Pb, Zn values adjacent to a massive iron sulphide deposit that is present in the Sullivan Mine.

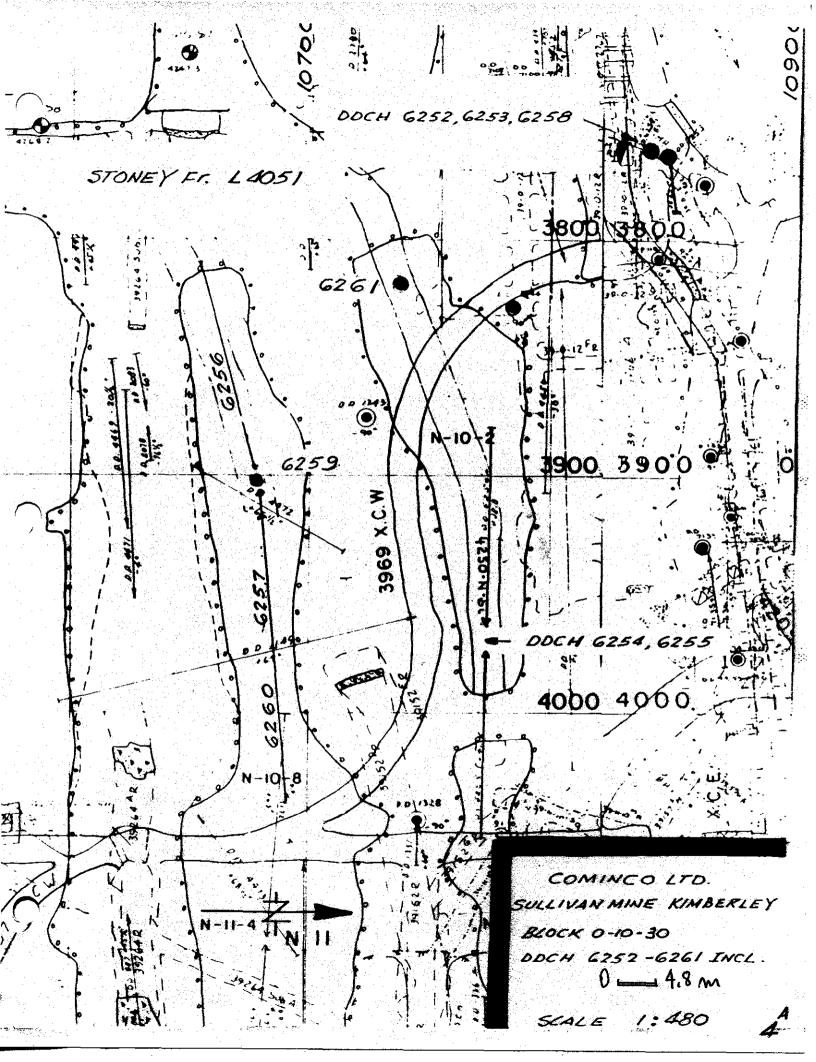
Core holes 6252-6261 inclusive, totalling 273.1 meters, were all drilled on the Stoney Fr. (L4051) crown-granted mineral claim.

Ed Oslund is the co-author of this part of the report that is being submitted in May, 1986.









### A. OBJECTIVE

The objective of drilling DDH 6247 was to locate Ag-Pb-Zn-Fe sulphide ore below the lowest known intercept in this area of the Sullivan deposit.

### B. RESULTS

DDH 6247 intersected 9.7 meters of economic grade sulphides.

### C. INTERPRETATION

00 - 3.0 meters Laminated sediments

3.0 - 12.7 meters High grade layered sphalerite-galena-pyrrhotite ore

12.7 - 16.8 meters Pyrite-chlorite-calcite

### D. CONCLUSION

DDH 6247 was collared in laminated sediments of the footwall series and penetrated through a high grade continuation of the Sullivan deposit. The pyrite-chlorite-calcite assemblage is an alteration product related to a hydrothermal system along the Kimberley Fault.

## A. OBJECTIVE

The objective of drilling DDH 6248 was to locate Ag-Pb-Zn-Fe sulphides below the lowest known intercept of economic grade sulphides in this area of the Sullivan deposit.

### B. RESULTS

DDH 6248 intersected 26.2 meters of economic grade sulphides.

### C. INTERPRETATION

Ò	- 5.7 meters	Laminated sediments
5.7	- 28.2 meters	High grade layered sphalerite-galena-pyrrhotite
28.2	- 31.9 meters	Alternating zones of barren pyrite and high grade
		sphalerite-galena-pyrrhotite
31.9	- 33.4 meters	Vuggy pyrite zones in fractured argillite
33.4	- 34.4 meters	Massive argillite

### D. CONCLUSION

DDH 6248 was collared in laminated sediments of the footwall series and intersected a high grade continuation of the Sullivan deposit at a low angle. The pyrite zone at the top of the hole is an alteration product related to a hydrothermal system along the Kimberley Fault.

## A. OBJECTIVE

The objective of drilling DDH 6249 was to locate Ag-Pb-Zn-Fe sulphides below the lowest known intercept of economic grade sulphides in this area of the Sullivan.

### B. RESULTS

DDH 6249 intersected 9.4 meters of economic grade sulphides.

### C. INTERPRETATION

0 - 16.3 meters Laminated sediments

16.3 - 25.7 meters High grade layered sphalerite-galena-pyrrhotite

25.7 - 29.0 meters Laminated sediments

### D. CONCLUSION

DDH 6249 was collared in laminated sediments of the footwall series and intersected a high grade continuation of the Sullivan deposit at a very low angle and then reentered laminated sediments. The interpretation is a fold in the stratigraphy with the core hole going back into footwall sediments.

#### A. OBJECTIVE

The objective of drilling these ten core holes was to provide grade and mining hanging wall information.

В.	RI	ESULT	S AN	D INT	ERPRE	TATION			Aprolized at the
			Met	ers	<u>Ag</u>	Pb	Zn	<u>Fe</u>	muie Bab.
1.	0-	10-30	<u>l:</u>		02/K	%	%	%	Core in storage at the min
D	D 62	52	0	- 12.2	0.4	0.6	1.9	57.9	Part MB, chiefly pyrrhotite
	+ 1		12.2	13.1	4,	No sar	nple		Breakthrough into gravel fill
D	D 62	253	13.1	- 10.1	0.9	1.3	1.1	57.7	Chiefly pyrrhotite
		;	10.1	- 10.7		No sar	nple		Breakthrough into gravel fill
D	D 62	58	10.7	- 14.9	0.9	1.3	1.1	57.7	Chiefly pyrrhotite
	V V		14.9	- 23.2	1.7	3.3	3.0	53.2	Pyrrhotite with some Pb,Zn values
			23.2 -	- 24.7	0.1	0.4	0.3	42.9	Pyrite, top MB
			24.7 -	- 30.8	M	No sar	nple		HW rocks, brecciated albite
<u>2.</u>	N-	11-31							
DI	D 62	56	0 -	17.1	0.6	1.2	2.7	51.5	Part MB, chiefly pyrrhotite
·		and the second second		- 25.6	19.0	46.0	6.6	19.0	Part MB, high grade sulphides
		113	25.6 -		0.6	1.3	0.4	39.5	Pyrite, top MB
				- 37.2	<b></b>	No san		00.0	HW rocks, brecciated albite, argillite
DI	D 62			- 9.8	0.9	1.8	3.7	53.9	Part MB, chiefly pyrrhotite
. = :				26.8		1.0	0.3	43.2	Pyrite, top MB
				- 27.4		No san			HW albite
. Di	62			- 8.5	0.9	1.9	2.9	54.1	Part MB, chiefly pyrrhotite
)				- 13.1		35.5	4.8	28.4	Part MB, high grade sulphides
:				14.6	0.4	1.0	0.3	39.5	Pyrite, top MB
				- 19.5		No san	6	00.0	Albite, argillite, chlorite
ום	D 62			5.8	0.9	1.7	1.9	50.1	Part MB, chiefly pyrrhotite
				30.2	1.1	6.2	8.7	41.7	Part MB, good Pb,Zn in pyrrhotite
	10.			34.8		0.5	0.3	40.6	Pyrite, top MB
				40.0		No san		70.0	HW rocks, albite, argillite, chlorite
3.	N-	10–30:	nga kijiti.	dhalla				1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
. —	0 62			7.0	1.0	10	1.6	E7 2	Donal LAD
U,	<i>J</i> 02	<b>54</b>		7.0 25.0	1.0 3.3	1.9 12.7	1.6	57.3	Part MB, chiefly pyrrhotite
	7.0			A CONTRACTOR OF THE PARTY OF TH	. "		10.4	38.7	Part MB, good Pb,Zn in pyrrhotite
			25.0 -		0.2	0.3	0.2	42.5	Pyrite, top MB
	0 62			35.4 7.6	4.0	No san		E2 4	HW argillite, chlorite
U	J 02	၁၁			1.8	3.7	3.6	53.1	Part MB, some Pb, Zn in pyrrhotite
	44.74			21.0	3.4	7.5	14.3	41.5	Part MB, good Pb,Zn in pyrrhotite
				29.0	0.2	8.0	8.0	39.7	Pyrite, top MB
D	) 60			32.0	4.0	No san		E0	HW rocks, brecciated albite, argillite
וט	0 62			11.6	1.2 5.2	12.9	1.3	58.6	Part MB, chiefly pyrrhotite
	1000			17.2			4.6	36.3	Part MB, good Pb,Zn in pyrrhotite
			7.2 -		0.3	0.3	0.1	18.8	Pyrite, top MB
100			18.9 -	21.1	and the state of	No san	ıpıe -	and the state of	HW rocks, brecciated albite, argillite

#### C. CONCLUSION

All core holes were collared above the sulphide footwall and showed the erratic distribution of the Pb and Zn values in the main band immediately north of the central iron core. These core holes also confirmed the altered nature of the hanging wall rocks in this part of the Sullivan Mine.

## ITEMIZED COST STATEMENT

From January 26, 1986 to February 3, 1986, three diamond drill core holes were drilled (No. 6247, 6248, 6249) in 8-10 block within the Sullivan Mine, Kimberley, B.C.

Drill Labour Costs	15 manshifts x \$245.40/MS =	\$3,680
Equipment Rental, Bits, f	Rods and Supplies	1,972
Geological Supervision, Lo	ogging, Report Writing	2,000
Total Program Cost		\$7,652
Costs per meter (80.2 m)		\$95 41

## ITEMIZED COST STATEMENT

Ten diamond drill core holes were drilled during the period of February 4, 1986 to March 6, 1986.

Drill labour costs 49 manshifts x \$245.40/MS = \$12,024.60

Equipment, Bits, Rods and Supplies 6,720.00

Supervision, Core Logging, Assays, Report Writing 4,500.00

Total Program Cost \$23,244.60

Costs per meter (273.1 m) \$85.11

## **AUTHOR'S QUALIFICATIONS**

As co-author of this report, I, Bruce Reid, certify that:

I am employed by Cominco Ltd. as a Senior Geological Technician active in minerals exploration.

I have been continuously engaged in mining and exploration geology for the past 10 years.

Bruce Reid

Approved:

D. McMurdo Superintendent, Mine Engineering & Geology

### **AUTHOR'S QUALIFICATIONS**

As co-author of this report, I, Ed Oslund, certify that:

I am employed by Cominco Ltd. as a Senior Geological Technician active in minerals exploration.

1 have been continuously engaged in mining and exploration geology for the past 34 years.

Ed Oslund

Approved:

D. McMurdo

Superintendent, Mine Engineering & Geology

Comineo

te difference operation	<u>경험생활하다면 하는 사람들이 하는 사람들이 되었다면 하는 것들은 사람들이 되었다면 하는 사람들이 없는 사람들이 되었다면 하는 수 있다면 하는 것이다면 하는 것이다면 하는 것이다. 그렇게 되었다면 하는 것이 하는 것이다면 하는 것이다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데</u>	40 Scale	
bjective: L	ocate Econ. MB	Color Piot & D	Ipa Ore Classes & Av
gged By:	D.B. Reld Date: January 30/86 Composites:	0-73	
očki	8-10   Sect.:   Place: 30110 B/R   App. Bear:   App.: Dip.:   Length:   55'	1	
m fo	Discard: Reson:		
10	(1/=0.305m)		
* 1 3 3	Lamb algume come amortication core is quite blocks.	4	
0.0 11.3	High grade – layered Sp-Gn-Po occasional Py.		
.3 15.8	Pyrrhotite - sediment mix, Estimate 50-60% Po. No visible Pb or Zn. Vague layering.		
.8 40.2			-
	24.2 - 28.0 - Mainly Po with "buckshot" Py throughout.  32.0 - 32.5 - Some fragments of sediment. Good core recovery. 0.3! loss.		
	32.0 - 32.5 - Solite Hagments of Securient. Good cure recovery. 0.3 loss,		
12 417	Calcite veining. Some good sphalerite mixed with pyrite in celoite.		
	40,2 - 42.7 - Mainly cel, vein. *Vein separates high grade from Py-Chi-Cal.		
7 55.0			
	Pyrite estimated from 10-75%.		
_	Corè Size		
	Hole No.		
	6247 1 of 1		
	DBRewl ,	F 1111	2607_

DBRew DBRew

10.0		1. 2		- / 1
		- 34		0.00
	-	-	-	3.1
- 3		200	₹.	5.
1.3		حنن		٠.
	ш	ЙΉ	ИΠ	1
1 - 12	100			•
			<b>a</b> .	· 13
	-	-		. i.

Objective:					Sampled:				40 Scale  Color Plot & D	Va. 10-20-22-2-2
									Color Fast & D	Pips Ore Classes & Av
Logged By Block:	N, D	.B. Reid	Date: Febr	usry 26/86	Composites:	App. Bear:			°π	
		8-10	10		30110 S/A	N42°30'51"	App.; Dip.; +4.5°	Length: 113'		
rom Te		Diacard:		Peason:				(1'=0.305m	$\mathbf{x} = \mathbf{x}$	
0 18	8.7	Argillite			Example 1				<del>7  </del>	
		0 - 15.5 - Va	gue laminations -	possibly mai	ssive argillite in	places. Some mot	tled texture+elongat	ed Po blebs 12.0-15.0		
	74.6 74.6		Distinctively thin				· ·			
18,7 21	1.5	High grade la	rered Sp-Gn-Po. G	enerally vag	ue layering. Min	or amounts of sed	iment.			
21.5 28	8.3	<u> Pyrchotite - A</u>	<u>rajllitė mixture. P</u>	o 50-60%. SI	liaht layering. V	<u>erv minor Pb-Zn v</u>	isible.			
										-
28.3 66	6.0	- ACC 性 曜 11 えぶから	ered ore. Very po		<u> </u>					
		41,5 - 43.5 -	Neer massive Sp. v	dth large Py	phenocrysts ("	buckshot texture")				
56.0 58	8.6	Sediments with	Po layers, Minor	Ph-Zn						
58.6 92	2,5	High grade Sp	with sediment fra	gments, pyri	te zones + Qtz-	Sp yeigs.				
			Goarse Sp + Gn w	The state of the s						
		60.0 - 60.5 -	Pv + coarse Sp in	fracture zor	) <b>0.</b>					
			Py + coarse Sp in	fracture zor	ne. 1 0.7° core l	oss				
		72.0 - 72.2 -		- 19 - 14 de - 15 de -						
			Sed, fragments wit	th high grad						
			Broken core.		1,4' core	loss	Core Size			
	ा									
							Hole No.	Page		
							6248			
					DBRO	und of			1 1111	2507-

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Cominco

		40 Scale
bjective:	Sampled:	Color Piot & Dips Ore Classes & Ave
gged By:	Date: Composites:	0
ock:	Sect: Place: App. Bear: App.: Dip.: Langth:	
om To	Discard: Reason.	
	75.0 - 90.2 - Mixed up sed. fragments, coarse Sp + Py. 0.2' core loss. 30-40% sediment.	
414	80.2 - 92.5 - Mainly high grade Sp with occasional sediment fragment and some pyrite xsti's.	
2.5 104.	Mixed high grade sphalerite, pyrite in vuggy fracture zones and frectured up sediment.	
	92.5 - 85.0 - Vuggy pyrite zone in brecciated sediment - driller reported voids. *1.5' core loss.	
	85.0 - 95.9 - Brecciated sediment.	
	95.9 - 96.8 - Sp + Py in broken zone.	
	96.6 - 97.5 - Sediment brecels with Sp + Py.	
	97.5 - 101.8 - Vuggy pyrite fracture zone. Driller reported voids, *3.3' core loss.	
	101.8 - 102:3 - High grade Sp. with Py	
	102.3 - 103.5 - Sadiment - cyrite breccia	
	103.5 - 104.6 - High grade Sp.	
A 6 400		
74.0 109,	Vuggy pyrite and fractured sediments - no visible Zn-Pb.	
09 7 119 /	Massive argillite - minor amounts of pyrite, 1,3' core loss.	
×	Weedite organice - minure amounts or pyrice, 1,3 core loss.	
End		
	Care Size	<del>-</del>
	Hole No. Page 6248 2	
		2507

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eative: Lo	ete Economic M.B. Sampled:	Color Plot & Dips	Ore Classes & Av
ged By: D	B. Reid Date: February 13/86 Composites:	0	
<b>.</b> 8	10 Sect.:		
To	Discard: Reason:	4	
53.5	Footwall argilite - Laminations at low angle to core - 16°	2	
333	0 - 12.3 - Thin laminated argillite. Broken at 6,3 - 6,5. No core loss.		
	12.3 - 49.5 - Massive argilite - no visible leminations. Very broken 22.0 - 23.5.		
	49.5 - 53.5 - Po lams in argillite. Very broken 27.0 - 28.0. 0.5 loss.		794
	Very broken 46.6 - 47.0. 0.2! loss	4	
		1	
5 84.2	High grade layered sulphides - very high Zn.	1	
	53.5 - 62.4 - Vaguely layered high Zh sulphides, Broken 65.5 - 66.0. 0.5 loss.	180.34.05	
	Some sediments mixed with ore in crude layers and disseminated - usually approx. 10%, Only 0.9' core	<b>i</b>	
	loss over total aulphides.		
	62.4 - 63.4 - High grade Zn with large pyrite phenocrysts. Pyrite approx. 30%.		
	63.4 - 84.2 - Layered sulphides - high Zn. Some disseminated and layered sediment layering near parallel to core.		
2 95,0	rootwall argulite - vague laminations of pyrrnotite.		
End	93.0 - 93.5 - Breccia zone.		
			- III - <del>-</del>
	Core Size		
	Hole No. 6249 Page		
	용하 레마트 등 그 이 명에 오셨다면 못 중심했다. 아까지 어디에 만든데[17] 20, 그리고 생물을 되어 하였다.		
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ojectiv	e: Pro	vide grade and HW information Sampled: 0-6, 6-11, 11-17, 17-23, 23-29, 28-35, 35-40 (40-43 discarded)	Color Plot & D	ps Ore Classes & A
gged	ву: Е.	Oslund Date: February 12, 1986 Composites:	0-71	
ck.	0-10-	30   Sect. 10850X   Place: 42179 XCE   App. Bear: App. Dip.: Length: +60° 43 ft		
m	To	Necard: Yes Reason: Whole core sampled (1/= 0.305/m)		
0,0	40.0	Massive pyrrhotite with scattered fine stringers and small patches of Zn. Fair Zn, and some Pb in section 11-17 ft.		40' 43' Bhd
		Core is calcite spotted in local sections.		
		Core becomes tarnished with some dark red surfaces from 25-40 ft - probably from being close to the piller edge.		
		In general the core is in fairly good shape - estimate core loss 1-1.5 ft.		
40.0	43,0	Breakthrough into gravel filled stope - rounded and angular pieces of argillite, albite, epidote, sandstone, etc. noted.		
		End hole at 43 ft.	7	
			<del></del>	<del>-</del>
-				
		$\mathcal{G}_{A}$		
		Core Size AXK		
•		W Slint Core Size AXK  Hole No. Page		
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			40 Scale		
bjectiv	Vide grade and HW information Sampled: 0-5, 5-10, 10-16, 16-22, 22-27, 27-33 (33-35 discarded) Oslund Reto: February 12, 1986 Composites:	Color Plot & Dip	os Ore Classes & A		
gged	<b>0</b> ⊤∎				
ck	n ú				
m		PASSON		22	
		Yes Whole core sampled $(1+t=0.305m)$		"	
0_	33,0	Massive pyrrhotite with fine stringers and small patches of Zn; good Pb and Zn values 22-27'. Core is generally discoloured,		ind.	
		tarnished: some dark red oxidized surfaces - probably from proximity to gravel filled stope.			
		Calcite spotting in local sections.			
3.0	35.0	Breakthrough into gravel filled stope - rounded and angular places of argillite, epidote, sandstone, etc. noted.			
		Core is in fairly good condition - estimate + 1 ft core loss 0-33 ft.  For hole at 33 ft			
1					
J.					
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	<u> </u>				
				- III	
		Mil Columb Core Size			
		9/11 Ochen L Core Size			
_ :	e i i i i i i i i i i i i i i i i i i i	9/11/12/2			
		Hole No. Page 6253			
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	40 Scale								
jective	<b>}</b> :	Provide grade and hanging wall information   Sampled: 0-112' (112-116' discarded)							
ged E	Зу:	E. Oslund Date: March 4, 1986 Composites: Tin and antimony	o	TEN					
ck:		N-10-30   Sect. 10750-10800   Place: 4250-N-Scram   App. Bear: +40°   Length: 116 feet							
n j	o	Discard: Yes Reason: Whole core sampled (14t - 0.305m)		23					
1	12.0	Part main vein sulphides:		1					
		0-65' = Massive pyrrhotite with erratic Pb and Zn in patches and stringers.							
		0-23' estimate ± 5 units, while 23-65' the Pb and Zn values increase noticeably. Local calcite and chlorite streaks in the							
		core. Some oxidized, reddish surfaces in the core.		65					
		65-82' = Fine grained, crystalline pyrite with patchy Pb and Zn - fair to good grade sections. Core is carbonate rich with							
		minor chlorite spotting.		17"					
		82-112' = Fine to medium to coarse grained crystalline pyrite, the closer to the sulphide hanging wall (112 ft) the coarser			_				
		the pyrite. The core is carbonate rich with 10-15% chlorite in the last 6-7 feet. No visible Pb or Zn.							
				End.	H				
.0 1		HW rocks - chloritic argillite, Core quite broken.							
	31 - G. 1	End hole at 116 feet.							
		Shorts: All in all the core is in good condition, estimate 1-2 feet short from 0-112 feet.							
			<del></del>						
		(Core Size							
		Jan Osland AXK	1	$\ $					
4.4.		JM) (Island Hole No.							
		6254 Page	* 4 🕻						
					2502				



		40 Scale
ojective:	Provide grade and hanging wall information Sampled: 0-95 (95-105 discarded)	Color Plot & Dipa Ore Clesses & A
gged By:	E. Oslund Date: March 5, 1986 Composites: Tin and antimony	0 1/1/2 11
r¢k:	N-10-30 Sect: App. Dip.; Length: N-10-30 Feet East +40° 105 feet	
m To	Discard: Peason: Whole core sampled (14t=0.305 m.)	
95.0	Part main vein sulphides	
	0-66' - Massive pyrrhotite with erratic patches, stringers of Pb and Zn. Local calcite and chlorite spotting and streaks,	
	6" calcite fracturing and crystalline pyrite at 19 feet, increasing Pb and Zn values (especially Zn) from 25-66 feet.	
	Occasional rusty, exidized surfaces present in the core. Core is badly broken 20-25 ft (1,3' missing) - pillar break?	
	66-95' = Fine to medium to coarse grained crystalline pyrite (last 6' coarse grained with 15-20% chlorite).	
	Core is carbonate rich with some chlorite streaks.	
	66-69' - good Zn values in patches, spotting and disseminated.	
	73,5-74,5 - calcite fracture (crystals) with some coarse Zn in the pyrite.	1005
	74.5-83 - spotty Zn in pyrite.	
	83-85' - some Zn patches in the pyrite.	
	85-95' - na visible Pb or Zn in the pyrite.	
0 105.0	Brecciated albite with some argillite and chlorite; local pyrite crystals.	
	End of hole at 105 feet.	4
	Shorts = core in good shape except 20-25 ft; estimate 2-2.5; short from 0-95 ft.	
	Core Size	1
	AXK	
	11 Allen L	
	Hole No. Page 6255	





bject	live: Pr	ovide grade and HW information Sampled: 0-7, 7-13, 13-19, 19-25, 25-31, 31-37, 37-43, 43-49, 49-56, 56-62,	40 Scale Color Plot & Dips	Ore Classes & Ave
oge	d Bv: E	. Oslund - February 20 1086 2 - 7, 3-00, 50-03, 63-04, 84-89; (89-122 discarded)		
ock:		Sect.:	•	
	٨	4-10-31 10650-10700 4250-N-Scram 1 West +40° 122 ft		
om	То	Peason: Yes Whole core sampled (1H = 0.305m)		
0	89.0	Part main vein sulphides:	4	
		0-56' = Massive pyrrhotite with erratic streaks, spots and patches of Zn; some Pb generally with the patchy Zn.		
		Core is chiorite spotted to about 15'; local porphyroblastic pyrite patches 40-50'. Pb and Zn values increase approaching	S and Lat	
		the 56 foot mark. The core is in fair shape with broken sections near the start of the hole and 30-40 foot interval.		
		some fractured, rusty surfaces present;		
-		56-80' = High grade sulphides (Pb + Zn with some pyrrhotite, estimate 40-50 units). Core shows massive to		
		periodic sections (sharlow angles to core). The core itself is in good condition.	5,6	
		80-83' + Fine grained crystalline pyrite, carbonate speckled. No visible Pb or Zn.		
		83-84' = Fine grained crystalline pyrite, with patchy Zn - fair grade.		
	ļ	84-89' = Fine to coarse grained crystalline pyrite, carbonate speckled with 10-15% chlorite.	132 En	
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.0	95.0	40% coarse, crystalline pyrite and 60% chlorite - no visible Pb or Zn.		
0_	122.0	rregular mixture of chlorite, argillite and brecciated albite - core in good shape.		
-	<del>-</del>	End hole at 122 feet		
		Shorts: Sulphides (0-89') estimate ± 3 ft		
	•	Waste (89-122') estimate ± 2 ft		
-	<del>                                     </del>			
<u>-</u> -	<del>                                     </del>	The Osland Core Size		-
	<del></del>	La Osland Core Size  AXK  Mole No. Page		
	• • • • • • •	JW Galler		
	• = 1 = 1	Hole No. Page 6256		



								40 Scale	
Sampled: 0-7, 7-14, 14-20, 20-26, 26-32, 32-39, 39-46, 46-52, 52-58, 58-64, 64-70, 70-76, 76-82, 82-88, 88-90 (discarded)  gged By: E- Oslund: Date: February 21, 1986 Composites: Sn & Sb 0-32' & 32'-88'								Color Plot & Dipa	Ore Classes &
k:		10-31	Sect.: 10650-10700	Place 4250-N-Scram 1	App. Bear: East	App.: Dip.; +40°	Length: 90 feet		
	To ·	Discard: Yes		Resson: Whole care s	ampled		1ft=0.305m)		
a.V	88.0	Part main vein	sulphides:						
		0-321 = Chiefly	massive pyrrhotite v	vith streaks, spots and pa	tches Zn - no defin	te "zoning" but be	iter grades from 26-32		
$\mathcal{L}_{i}^{i}$		fest. Some Pb	generally with the pa	tchy Zn. A hint of bandli	ng at 16' (57°) and	30' (60°). Local cl	nlorite patches and		
		spotting; some	perphyroblastic pyrite	10-16 feet. Core is brok	en 0-10' & 21-32'	with some rusty ta	unished surfaces		
		32-88' # Fine	grained crystalline by	rite, core is carbonate sp	eckled. No visible P	or Zn on the surf	ace of the core:		
	4	Dut while break	ing the core for sam	pling an occasional piece	showed Zn spotting.	80-88 ft the core	shows coarser		
		grained pyrite	with increasing chieri	te patches.					
)	90.0	Brancistad albit	e with some chlorite					1	
	33,0	End hole at 90		and arguitte.					
								-}	
		Shorts: Estimate	a ± 2 feet.					1 111	
3.4					<b>1</b>			1	
					19 M. M.				
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	<u> </u>								
- i			والمنطق في الرابط عليها أن المحال المستعدد الم						
					OIT DA	Core Size		4	
	-44	<del></del>	e entre majorina limitati en la rese de membrando e, minimo estre de la como en la como en la como en la como e	7	W Oslin	AXK			
	7				FIN Alle				
e sini	المتواطاتاه	المواد ويسميوا يهوا معارضيا كشمي	والأراؤم أأورها الحاسطة وكالأرا		111 19200			1 111	111



piective:		40 Scale				
Sampled: 0-6, 6-12, 12-18, 18-24, 24-30, 30-36, 36-42, 42-49, 49-56, 56-63, 63-69, 69-76, 76-81, (81-101 discarded)						
O-	10-30   Sect. 10850X   Place 42179 XCE   App. Sear:   App. Dip.:   Length: +90°   101 ft					
m To	Discard Peason:					
0.0 81.0	Whole core sampled (14.0.3057m)  Main vein sulphides:					
	0-49 = massive pyrrhotite with some fine stringers, specks and small patches Zn; occasional streak Pb noted.					
	49-78 = grades improve, more pronounced Pb. Zn patches, stringers in pyrrhotite.	-				
	76-81 = crystalline pyrite with chloritic patches, no visible Pb or Zn.					
	Sulphide core is calcite spotted and tarnished (oxidized) in places.	<b>!</b>				
	Core is guite broken 58-77 ft.	<b>               </b>				
1.0 101.0	Brecciated albite with some chlorite and argillite, albite ranges in colour from white-grey-brownish.					
	Shorts: Core in general from poor to fair condition (local broken, tarnished [oxidized] sections - could be pillar cracks).	100	led.			
	± 6" short in section 65-77 ft.					
	± 1 short in section 81-101:					
	End hole 101 ft.					
	IN Ostend core Size					
	El Osland Core Size AXK					
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	40 Scale
Provide grade and HW information   Sampled: 0-6, 6-12, 12-18, 18-24, 24-28, 28-33, 33-38, 38-43, 43-48, (48-64 discard)   Composites: Sn and Sb	Color Plot & Dips Ore Classes & A
N-10 Sect: 10700 Place: 4250-N-Scram 1 App. Bear: App.: Dip: Length: +90° 64 feet	
Discard: Reason:	
Part main vein sulphides:	4
0-28 = Massive pyrrhotite with erratic patches, stringers and spots of Zn - some Ph penerally with the patches Zz	
Some porphyroblastic pyrite from 13-15- feet. Pb and Zn values improve approaching the 28 foot mark. Care her	
spotty chlorite and calcite throughout. Some broken, rusty surfaces but otherwise the core is in fair condition	
except near the collar.	
28-43' = High grade Pb and Zn with some pyrrhotite to 34 feet, then a change to fine grained crystalline pyrite	
with the high Pb and Zn to 43 feet. Core is badly broken from 31.5-34 feet - probably from drilling.	1           _
43-48' = Fine grained crystalline pyrite with 15-20% chlorite. No visible Pb or Zn on the surface of the core but	7 11 11
when the core was broken for sampling a few streaks of Pb and some spotty Zn was seen.	
	1 11 11
	7
54-601 = Brecciated albite with some chlorite and a few pyrite bands? - dips 63°.	7
60-64' = Massive looking chloritic argillite with some buckshop pyrite.	
End hole at 64 feet.	
	]        -
	]
Le United AXK	
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W Usland Hole No.	
6259 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	E. Oslund  Date: February 25, 1986  Composites: Sn and Sb  N-10  Sect: 10700  Place: 4250-N-Scram 1  App. Beet: App.: Dip.: 64 feet  Oliciand: Yes  Reason: Whole core sampled  Lift=0.305/M  Part main vein sulphides:  0-28 = Massive pyrrhotite with erratic patches, stringers and spots of Zn - some Pb. generally with the patchy Zn.  Some porphyroblastic pyrite from 13-15- feet. Pb and Zn values improve approaching the 28 foot mark, Core has spotty chlorite and calcite throughout. Some broken, rusty surfaces but otherwise the core is in fair condition except near the collar.  28-43' = High grade Pb and Zn with some pyrrhotite to 34 feet, then a change to fine grained crystalline pyrite with high Pb and Zn to 43 feet. Core is badly broken from 31.5-34 feet - probably from drilling.  43-48' = Fine grained crystalline pyrite with 15-20% chlorite. No visible Pb or Zn on the surface of the core but when the core was broken for sampling a few streaks of Pb and some spotty Zn was seen.  Hangingwall rocks: 48-54' = Chloritic argillite with some crystalline pyrite.  54-60' = Brecciated albite with some chlorite and a few pyrite bands? - dips 63°.  80-64' = Massive looking chloritic argillite with some buckshop pyrite.  Shorts: Estimate 1-2 feet.  End hole at 64 feet.  Page  Page





				300 years 200 years		<u> </u>			40 Scale		
yecuve: f	Provide grade and	HW information		Sampled: 0-114					Color Plot &	Dips (	Ore Classes & Av
gged By: E	E. Oslund	Date: February	, 27, 1986	Composites:					0-	C TUBER	
ck:	N-10 Area	Sect.: 10700	Place: 4250	-N-Screm 1	App. Bear: N85°E	App.: Dip.: +20°	Length:				
m To	Discard: Yes		Reason		<del></del>	+20	A	131 feet			
			vyn:	ole core sampled			11/4 2	0.305m	<b>)</b>		
)   114.							7 0			37	
	U-3/ = Massive	pyrchotite with stream	ks, stringers	s, patches Zn sca	ittered throughout	core. 0-6' - mix	ture sulphid	es, quartz,		<b>H</b>	
	carcine (probabi	ly drilling parallel to a	a vein), feir	Pb, Zn near sta	rt and finish of t	his section; both p	yrite and p	yrrhotite		70	
-+-	in the quartz. I	The Pb and Zn values in	ncrease tow	erd the 37 foot	mark.						
	9/-5#' = Fine 1	o coarse grained cryst	talline pyrite	e, core is carbon	ate rich and chio	rite spotted, 37-49	has occas	ional patch		70'	
		increasing Pb and Zn v									
	54-78' = Good	to high grade sulphides	s - Pb and	Zn in pyrrhotite,	No indications of	banding, the core	has local	small patches		<b>*</b>	_
	calcite and chio	<del></del>								1114	
_	10-48, = L911 ft	o good Pb and Zn value	es in fine g	irained, crystellin	e pyrite. Core is	carbonate rich in	places with	some		<b>1</b> "*	1
	chlorite spotting									131	
+	99-114' = Fine	grained crystalline pyri	ite - no vis	ible Pb or Zn; 2	5-30% chlorite fro	m 105-114 ft,				and.	
1.0 131.0	0 Brecciated albits	e with argillite and ch	alorito Com				-, <del> </del>				
	End 131 feet.	- and ch	norice, some	a batite in individ	Jual crystals and	clusters.			1		
- <del></del>				<del></del>					1		
	Shorts: All in al	I the core is in good o	condition s	omo broken					1		
		nort in sulphides and ±			ons U-2/ feet.				1		
		w.v. madipinoes one 1	1 111 (118 )	HVV TOCKS.							₩ -
			مهنده داد سخمیری داده داده داده								
			Contracting to the second of the second	91,	100.	Core Size		<u> </u>			$\parallel \mid \mid$
			and the second s	en	Osland Osland	AXK					
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		the second of the second of the second	4.4	· · · /	and the second of the second	6260			1		Itt.



)bjectiv	æ:	Sampled:						
		Provide grade & HW Information 0.0-62.0 (62-89 discarded)						
gged	Ву:	E. Oslund Date: March 7, 1986 Composites: Tin & Antimony	9 <del>1111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111</del>					
ock.		N-10-30 Sect.: Place: App. Bear. App. Dip.: Length: 10750 4250-N-Scram +90° 89						
)m	Τρ	Discard: Reason:	(305m)					
).0	62.0	Part main vein suiphides:						
		0+38" = Massive pyrrhotite with scattered streaks, spots and patches of Zn, minor Pb generally with the patc						
		Calcite fracturing fairly common; chlorite in streaks and on jointing surfaces. Core is broken 0-20 ft with some						
		oxidized surfaces.						
	3.9	38-52! = Increasing Pb and Zn values in massive pyrrhotite; high-grade, fined grained galena with minor pyrrhotic						
		- 50 ft.	43.3					
	14,70	52-62' = Fine to medium to coarse grained crystalline pyrite (coarse grained at end). Core is carbonate rich G						
		values in pyrite 53.5 - 56.5						
52,0	64.0	Coarse pyrite, chlorite patches, albite inclusions						
54.0	89.0	Brecciated albite, argillite and chlorite. A few scattered pyrite crystals, Albite is grey-white-tan coloured.						
		End hole at 89 ft						
	* *	Shorts: Estimate 1-2' short 0-62' (sulphides) and ± 1' in the HW rocks 64-89'						
	<u> </u>							
		Core Size						
		AXK						

