### 014608

#### REPORT TO MINISTER OF MINES AND PETROLEUM RESOURCES

#### PURSUANT TO SECTION 52 SUBSECTION 2 (b)

Claim Names: LOON 1-16, Fu-Hu 10-14, 29-30, 41-44, STP 25-26,

Record Numbers: 43451-66, 53168-72, 53187-88, 53199-202, 54116-17

Mining Division: CARIBOO

Date of Forfeiture: September 5, 1974 : August 12, 1974

#### EXPLORATION AND DEVELOPMENT DONE:

	YES	NO	REPORT ATTACHED	MAP ATTACHED	ASSESSMENT REPORT FILED	COST
	*************	цинарация				
PROSPECTING						
GEOLOGICAL	X		X	X		\$838.00
GEOPHYSICAL	X				Sept 8/70 &	4,735.00
GEOCHEMICAL	X				Sept 5/69 *	4,053.00
SURFACE	X					361.00
AIRBORNE (TOPO)	X					574.00
LINE PREPARATION	X		•			3,043.00
DIAMOND DRILLING	X		X		Sept 27/70 &	23,221.00
ROAD WORK	, <b>X</b>				Aug 12/71 Nov 28/69	8,987.00

TOTAL

\$45,812.00

\* Sept 5/68 Sept 8/70 Sept 9/69

RECLAMATION

And 815, 8160, 8166

# GEOLOGICAL REPORT ON THE WILLOW CREEK PROPERTY - 93G/16E

#### INTRODUCTION:

Noranda exploration Company, Limited holds sixteen claims just north of Willow (Taspai) Creek, which is about twenty-five miles east of Prince George, B.C. The area of interest is on a small, moderately steep mountain, covered mainly by mature trees. The south and east parts are covered by Devil's Club in places. Outcrop is moderately plentiful to the west but becomes scanty to the east.

The purpose of the examination was to investigate two copper-zinc soil anomalies. The soil grid was used for control in mapping.

#### GENERAL GEOLOGY:

Geology in the Willow Creek Area consists of meta-sediments and metavolcanics to the west and possible Jurassic-or-later porphyritic quartz monzonite to the east.

Rock of the Slide Mountain Group (Mississippian or younger) includes argillite, chert, andesite-basalt, probable tuff, minor breccia and minor conglomerate. Dark grey argillite (069-6-26-5) is closely associated with dark grey chert and the two are grouped on the map. Two varieties of andesite-basalt occur. One is variegated purple, green-grey and grey (069-7-2-3), and the other is green-grey to dark-grey (069-7-1-2). In a few places the grey variety approaches diorite in composition. Pillow structure is well-developed in many outcrops of this rock.

Much of the rock of the Slide Mountain Group is aphanitic (069-6-27-7). Where pillow structures are not evident the rock could be tuff or meta-sediment. For convenience in mapping they were grouped with the grey andesite-basalt. Some breccia (069-6-26-1) and minor chert-pebble conglomerate (069-6-27-5) were also found.

The porphyritic quartz-monzonite is normally dark grey in color (069-6-27-1), but on a weathered surface phenocrysts of quartz and K-feldspar stand out in the lighter groundmass.

A few fragments of feldspar-quartz schist (069-6-28-3) occur in the eastern part of the mapped area. Because of the large size and breakable nature of some of the fragments, it is possible that they are fairly close to their original source. Fragments of rock from soil holes on the anomalous part of line 24N consist mainly of types similar to those of the Slide Mountain Group described above. A few fragments of breccia float (069-6-30-5) also occur.

#### ALTERATION:

Clinozoisite, chlorite, epidote, calcite and quartz occur as alteration products of other minerals and/or in veins. Clinozoisite is a major alteration product in much of the volcanic rock of the area. Large percentages of this mineral were seen in thin sections from 069-6-30-3 and 069-7-1-5. The exact limits and control of clinozoisite alteration are not known. Chloritization also occurs in these rocks.

Veinlets of epidote, chlorite, quartz, calcite and various combinations of the same occur in the Slide Mountain rock. Epidote and calcite are most common, and especially strong veining, which locally approaches a stockwork, is found in parts of the variegated basalt (069-6-26-4 and 069-7-2-3).

Moderate to strong quartz veining with local stockworks is found in much of the porphyritic quartz-monzonite.

#### STRUCTURE:

Details of the structure of the rock in the area is lacking. On the basis of four measurements of the attitude of bedding from argillite, the rock of the Slide Mountain Group in the southern part of the area strikes westnorth-west and dips moderately south. It is not known whether this is true throughout. The eastern contact of the quartz-monzonite appears to strike

north-northwest, but the size and shape of the intrusive as well as the exact location of its eastern contact can not be determined because of a lack of outcrop. Slickensides were observed in much of the rock but attitudes seemed diverse and a serious study of them was not attempted.

Two sets of quartz veins prevail in the southern and larger of two clusters of quartz-monzonite outcrops. The attitude of these sets are generally northeast-moderately-steep-northwest and east-northeast-steep-north.

#### MINERALIZATION:

Pyrrhotite, pyrite, malachite and minor chalcopyrite were seen in the mapped area. Pyrrhotite is the most common iron sulfide. Estimated percentage of iron sulfide in most of the Slide Mountain rock is 0.1 to 0.3 with no well-defined trend. One outcrop at 8N-15E has 0.8%. Since this is the closest outcrop of Slide Mountain rock found to the intrusive, it could indicate an increase in iron sulfide content near the contact.

Small amounts of copper were found in a number of locations. Most occurs as malachite within variegated basalt (069-7-1-5 and 2-3) in the southwest part of the area. Minor chalcopyrite was found with pyrrhotite within the grey andesite-basalt (069-7-1-3). Also minor chalcopyrite was seen in rock from soil hole 24N-20E. A few fragments in soil hole 24N-18E contains a black mineral with a reddish to yellowish brown streak. This is probably martite. An assay will be run on one of these fragments to test for copper.

There is much evidence of leaching of sulfides from both porphyritic quartz-monzonite (069-6-28-1) and (28-2) and Slide Mountain rock (069-7-2-4) in the mapped area. The evidence consists of limonite of various shades of color and voids along veins and fractures. Leaching of sulfides could account for a lack of copper mineralization near the principle anomaly. Much pyrolusite is found in rock of the area.

#### CONCLUSIONS AND RECOMMENDATIONS:

Copper in small amounts was found in outcrops within the smaller of two anomalous copper-zinc-areas. No outcrop was seen within the area of the northeast anomaly, but minor chalcopyrite occurs in a fragment from soil hole 24N-20E. Assays are being run on a number of rocks from outcrops and fragments within both anomalies. Leaching seems a big factor in the area and should be kept in mind when examining the assay results.

The principle anomaly to the northeast has not been satisfactorily explained by this examination. There are three possible explanations for it. First, copper mineralization in rock fragments from soil holes was not observed in outcrop. Assays on rock from the soil holes should in part check this possibility. Second, copper has been leached from the fragments in the soil holes, but remains in the soil. Third, seepage from rock below has brought copper to the soil near the surface where it has been released from solution. There is much water coming out of the area as evidenced by many small creeks and a profusion of Devil's Club. Further work must be completed to test whether one of the last two possibilities is correct. The geology of this area is favourable in that it is near the contact between the Slide Mountain Group and porphyritic quartz-monzonite. A profusion of quartz veins in some parts of the quartz-monzonite makes it more interesting. Also to be mentioned is an E.M. anomaly which seems to run along the contact south of the anomaly.

More geochem. and I.P. are now planned for the area. Trenching may be feasible across the principle anomaly on the 24N line since angular fragments there could indicate shallow bedrock. Trenching along the E.M. anomaly appears less likely to uncover bedrock. In conclusion the area may contain economic mineralization.

W.W. Osborne Geologist July 18, 1969

## NORANDA EXPLORATION CO. LTD.

93G/16E

Willow Creek F.U.

Sampled by W.W. Osborne

#### SAMPLE REPORT

DATE July 9, 1969

(	Grab Samples	SAMPLE REPORT		DATE	1.1. Y			
SAMPLE NO.	PLACE	LOCATION	Au	Ag	Cu	Мо	Рb	Zn
L-6522	Taken from	A highly fractured (bx ?), very fine moss-green rk. Probably And.	Tr	Tr	0.03	Tr	Tr	0.03
	at 24N-18E	Fractures filled with bio. rich						
		material. Carb. vits. Black metallic mineral with brown orange						
		streak.						
	Frag under	Fine greenish grey rk. Strong						
L-6523	stump at ON-1+20W	voining by qtz. epi. & cal. Some pyrr.	Tr	Tr	0.01	Tr	<u>Tr</u>	Tr
	9// 1.20//							
L-6524	Taken from	Fine It. grey rk. (And. ?) w. small veins of bio. chl. Two specks of	0.01	Tr	0.01	Tr	Tr_	0.01
	24N-20E	chalco.						
L-6525	Taken from	BasAnd. bio. Hf. Minor py.	0.02	Tr	0.03	Tr	Tr	0.01
	soil hole 24N-18E							
	From James							
L-6526	From large otcp. at 0+50E -	Grey BasAnd. w .4 pyrr. Minor	Tr	Tr	0.01	Tr	Tr	0.01
	1+50S							
								4
L-6527	From otcp. at 3+80N	Variegrated puple-grey-green grey Bas. Carb. vits. Some bio. in	Tr	Tr	0.08	Tr	Tr	0.02
	-2W	fractures. Tiny acicular XIs of tremolite (?) in rk.					<del>                                     </del>	~ <del></del>
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							+	

147 Riverside Drive, North Vancouver, B.C. Tel. (604) 929-2228

#### **CERTIFICATE OF ANALYSIS**

Willow Crech.

TO NORATION EXPLORATION CO.	TYPE OF SAMPLES ROCK
1050 DAVIE ST. Vancouver 5, B.C.	No. of SAMPLES
	FILE No. 374 Our Inv. 1133

SAMPLE No.	OZ. PER TON GOLD	OZ. PER TON SILVER	% Cu	% Mo	Pb <sup>%</sup>	zn		
L-6522 L-6523 L-6524 L-6525 L-6526 L-6527	tr tr 0.01 0.02 tr	tr tr tr tr tr	0.035 0.010 0.010 0.030 0.015 0.080	tr tr tr 0.001 0.001 0.001	0.002 0.004 tr tr tr 0.022	0.026 0.005 0.010 0.014 0.009 0.025		

PROVINCIAL ASSAYER

DATE JULY 25, 1959

NORA	NDA	EXPLORATION CO.	ITD Property:	WILLOW				e No.		NW-	-2
- CAA		EXILORATION CO.	Project No.:	34			She	et No		1	
Lat. 8 N		Elev.	Dip -45°	Collared	Oct. 13		Cor	e Size			
Dep. 28 E		Depth 3671	Bearing 250°	Completed	Oct. 1	7	Log	ged b	y:	G.I	Belik
Footage	Rec'y		phic Mineralization/St	ructure	%	Sample		stAs			
60-70	95	Qtz.felds.porphyry;sections of brecciated porphyry with a dense matrix.	Minor py. Qtz. and qtzcarbo	nate veins.	Sulfides  <.2	No.	Lt.	Au	Ag	Cu	
70-80	90	Same	Same		<.2						
80-90	95	Same	S ame		<.2						
90-100	95	S ame	Same		∠.2	м 7204	10	Tr	Tr	Tr	
100-110	<i>&gt;</i> 95	Same	S ame		<.2						
110-120	>95	Same	S ame		<.2						
120-130	> 95	Same '	S ame		<.2						
130-140	>95	Same	Same		₹.2						

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NODAN	TOA	CVDI OD ATION (	O ITD Property	WILLO	W		Hole	No.		NW-2	
NOKAI	NDA	EXPLORATION C	Project No.:	34			Shee	t No.		2	
Lat.		Elev.	Dip	Collared			Core	Size			
Dep.		Depth	Bearing	Completed			Logg	ed by	:	G.Belik	
Footage	Rec'y	Rock Type/Alteration	Graphic Mineralization	on/Structure	%	Sample		s t Ass		,	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Log		Sulfides	No.	Lt.	Au	Ag	Cu	·
140-150	>95	S ame	S ame		₹.2						
150-160	>95	Same	S ame		₹.2						
160-170	>95	S ame	Same		₹.2						
170-180	>95	Same	S ame		₹.2						
180-190	>95	S ame	S ame		₹.2						
190-200	>95	S ame	S ame		<.2						
200-210	≥95	S ame	S ame		<.2						
*210-220	>95	S ame	Same		<.2	M 7205	10	Tr	0.5	`r	· · · · · · · · · · · · · · · · · · ·

NORANDA EXPLORATION CO. LTD.   Property:   MILLOW   Hole No.   NW-2	and the second s														
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Footage   Rec'y   Rock Type/Alteration   Craphic   Log   Mineralization/Structure   Sulfides   Su	Lat.			Elev.		Dip	Collared			Core	Size				
Footage   Rec'y   Rock Type/Alteration   Craphic   Log   Mineralization/Structure   Sulfides   Su	Dep.			Depth		Bearing	Completed			Log	ged by	′: G	В. Ве	elik	• • • • • • • • • • • • • • • • • • • •
220-230   > 95   Same   Same   .1	Footage	Rec'v	R	ock Type/Alteration	Graphi	c Mineralization/Struct	ure	%	Sample	Cre	st Ass				
230-240   >95   Same					Log			Sulfides	No.	Lt.					
230-240       >95       Same       .1         240-250       >95       Same       .1         250-260       >95       Same       .1         260-270       >95       Same       .1         270-280       >95       Same       .1         280-290       >95       Same       .1         280-290       >95       Same       .1	220-230	> 95	Same			Same		.1	i.					·	
250-260 > 95 Same Same .1  260-270 > 95 Same Same .1  270-280 > 95 Same Same .1  280-290 > 95 Same Same .1	230-240	>95	Same			S ame		.1				•			
250-260 > 95 Same Same .1  260-270 > 95 Same Same .1  270-280 > 95 Same Same .1  280-290 > 95 Same Same .1	240-250	>95	Same			S ame		.1							
270-280 >95 Same Same .1	•	> 95	Same			S ame		.1							
280-290	260-270	>95	Same			S ame		.1							
	270-280	>95	Same			S ame		.1						<i>,</i>	
290-300 95 Same Same .1	280-290	>95	Same	, , , , , , , , , , , , , , , , , , ,		S ame		.1							
	290-300	95	Same			S &me		.1							

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300-310	>95	Same			S ame			.1							
*310~320	>95	Same			Same			.1	М 7206	10	Tr	0.3	Tr		
320-330	> 95	Same			Same			.1							
330-340	>95	Same			S ame			.1							
340-350	> 95	Same			Same			.1							
350-360	≥95	Same			S ame			.1							
360-367	> 95	Same			S ame			.1							
											·				

				I W D. Drewenter	WILLOW			Hol	e No.	N	W-1		
NORAI	ADA	EXP	LORATION CO.	Project No.:	34		. <del></del>	She	et No.			· · · · · · · · · · · · · · · · · · ·	
Lat. 8 N			Elev.	Dip -45°	Collared	Sept. 16	5	Cor	e Size				·
Dep. 36 E			Depth 3501	Bearing 270	Completed	Oct.		Log	ged by	/: G	. Be	lik	
Footage	Rec'y			phic Mineralization/Stro	ucture	% Sulfides	Sample No.		st <sup>As</sup>				
86-90	80	ed 1	wacke with disrupt- aminations of grap- c shale:large vns. tz. w. drusy cavit-	Minor py.		\( \ .1	NO.	Lt.	Au	Ag			
90-100	90	Sam	e	S ame		<.1							
100-110	98	shal white	wacke & graphitic e with small barren e ctz.vns.w.random ntations.	Laminations of very in py in shale deformed way as the shale; very	in the same	.3	L 7142	10	Tr	0.1			
110-120	98	Same ciat:	;evidence for brec-	S ame		.5							
120-130	98	Same aring	;brecciation & she-	S ame		.3							
130-140	70	Same:	prominant breccia-	Minor py		.1							
140-150	80	shiny	; abundant black, y slickensided sur- s in the graphitic	11 11		.1							
150-160	95	Same	with pods & lenses tzfeldspar porph-	11 11		.1					-	-	·

NORA	NDA	EXP	LORATION C	O. L		erty:ect No.:	WILLOW 34			_	e No. et No.		NW-1 2	
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Footage	Rec'y		Rock Type/Alteration	Graphic Log		Mineralization/Stru	ıcture	% Sulfides	Sample No.	Cre Lt.	st Ass	says		<u> </u>
160-170	95	71	TT .		· 11 1	1 1		.1						
170-180	95	**	<b>11</b>		11 1	<b>1</b>		.1						
180-190	95	11	TT .		11 1	•		.1						
190-200	95	77	11		11 1			.1						
200-210	95		porphyry?contains usions of shale		11 _ 1			.1						
210-220	95	orma ed a	brecciation & def- tion more pronounc- round margins of p- yry? dykes.	.	11 1	11		.1						
220-230	95	11	/ # / *		11 . 1			.1						
230-240	95	11	· • • • • • • • • • • • • • • • • • • •		11 1	T .		.1						

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	IDA	EVDI	ODATION	CO 1	Th Property	WILLOW			Hole	e No.	<u> </u>	NV	7-1
NOKAI	NUA	EAPL	ORATION	CO. I	Project No.:	34			She	et No	•	3	
Lat.			Elev.		Dip	Collared			Cor	e Size			
Dep.			Depth		Bearing	Completed			Log	ged b	y:	G.	Belik
Footage	Rec'y	Ro	ck Type/Alteration	Graph	ic Mineralization/Stru	icture	%	Sample	Cre				
	ļ			Log			Sulfides	No.	Lt.	Au	Ag	Cu	
240-250	95	Same			Same		.1	. *					
250-260	95	S ame			Same		.1						
260-270	95	Same			Same		.1						
270-280	95	Same			S ame		.1	М 7202	10	Tr	0.2	Tr	
280-290	95	Same			S ame		.1	·					
290-300	95	Same			Same	1	.1						
300-310	95	Same	<i>y</i>		Same		.1						
310-320	95	Same			S ame		.1						

NORAI	NDA	EXP	LORATION CO	o. I	TD Property:	WILLOW		······································	.	e No.		NW-1	
			<del>r</del>		Project No.:	34			She	et No		4	
Lat.			Elev.		Dip	Collared			Core	e Size	!		
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Footage	Rec'y	В	ock Type/Alteration	Graph	c Mineralization/Structure		%	Sample	Cre	<b>st</b> As			
			The state of the s	Log	· · · · · · · · · · · · · · · · · · ·		Sulfides	No.	Lt.	Au	Ag	Cu	
320-330	95	Same			Same		.1	•					
330-340	98	with ocrys	feldspar porphyry? abundant qtz.phen- ts:some highly itic inclusions		Minor py:very minor cpy		.1						
340-350	98	Same	. ,		Same		.1	м 7203	10	Tr	0.1	Tr	
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			,								-		
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•							4										
		_									Hole	e No.	•	NW-3	<u> </u>		
NORAI	ADA	EXP	LORATION CO	). L	TD. Propert	ty: : No.:	W1	LLOW 34				et No		1	) ·		
Lat.	24 N		Elev.	Project No.: 34  Dip -45° Collared Oct. 18								e Size					
	20 E		Depth 2441	Bearing 245° Completed					Oct. 2	·····	Logged by: G. Belik						
Footage	Rec'y	R		raphi	. N	lineralizatio	n/Structure		%	Sample		s t <sup>As</sup>	says	·			
				Log	1				Sulfides	No.	Lt.	Au	Ag	Cu		······································	
Casing a 30' 20-30	70		ciated greywacke & nitic shale		Min <b>or</b> py				.1								
*30-40	70	graph	ciated greywacke, nitic shale & high- tered qtzfelds. nyry?		11 11				•2	М 7207	10	TR	TR	TR			
<b>40-</b> 50	70	Alter porph	red qtzfelds.		ff 11				.1								
*50-60	30	felds	y pebbles of qtz Porphyry altered		# # # # # # # # # # # # # # # # # # #				.2	м 7208	10	TR	0.1	TR			
60-70	30	ered	y pebbles of alt- qtzfelds.porph.		ii ii ,				.1	-							
<b>*70-</b> 80	15	77	11		11 11		!		.1	м 7209	10	TR	0.1	TR			
80-90	15	Same shear	with prominant ing		it tt				.1								
90-100	70	shear	ant brecciated & ed greywacke & with some porph-		it 11				.1								

11.63 D A A		EVOL			Property:	WILLOW			Hole	e No.		_NW-	. 1		
NOKAI	NDA	EXPL	ORATION CO.	L	Project No.:	34			Sheet No.						
Lat.			Elev.		Dip	Collared		territorio de la fermina d	Core	Size					
Dep.			Depth	Bearing Completed					Logged by: G. Belik						
Footage	Rec'y	Ro		aphic .og	Mineralization/Structure		% Sulfides	Sample No.						:	
*100-110	70	S.S.	iated porphyry & with some graph-material	1 1	Minor py and bornite? Numerous barren qtz. vein	s.	.2	м 7210	TR						
110-120	95	felds.	recciated qtz porph.(more equi- lar than porphy- )		Minor Py Qtz.veins (1/ft.)		.1								
*120-130	95	**	11		Minor Py and bornite?		•2	M 7211	TR	TR	TR				
*130-140	85	Some s	shearing and brec-		11 11	-	.2	M 7212	TR	0.1	TR				
140-150	90	of bre	ry with patches ecciated greywacke whitic shale		11 11		.2								
*150-160	90	152-16	02:Porphyry 0:Dense,light banded mylonite		11 11	***************************************	• 2	M 7213	TR	0.1	Tr				
160-170	95	onite;	light green myl- breccia frags; tic material		?	A STATE OF THE STA	?								
170-180	70	light	breccia frags.of green mylonite sheared graph- nale w. S.S.		Py		.2				-				-

ALCOD A	ID A	rvr	I ODATION CO	ITD Pro	perty:W	LLLOW			Hole No. NW-3							
NOKAI	AUN	EXP	LORATION CO.		ject No.:	34			She	et No	3					
Lat.			Elev.	Dip		Collared			Core Size							
Dep.			Depth	Bearing	Bearing Completed			ed			Logged by: G. Belik					
Footage	Rec'y	. F		aphic .og	Mineralization/Structu	re	% Sulfides	Sample No.		st As		S				
*180-190	90	ciate 186-1	86:Sheared & brecd graphitic shale. 90:Brecciated porph. some shale		Ру		.3	M 7214		TR	TR					
190-200	90	graph	elds.porph:some itic frags.;porph. equi-granular	Minor py	and bornite?		. 2									
*200 <b>-</b> 210	95	t .	iated & fractured yry;altered	11	11		. 2	M 7215	10	TR	0.1	TR				
210-220	95		some sheared graph- material	11	11		. 2									
220-230	95	itic 223-2	23:Sheared graph- shale > S.S. 30-Fractured > ed porph.w.graph.	11	11		. 2									
*230-244	95	and p	iated S.S.,shale orphyry;past 236 phenocrysts of . & qtz.	tt	11		. 2	M 7216	10	TR	0.1	TR				
			,													

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NDA	EXPLORATION (				-		N N	W <b>-4</b>						
F 70 11	Flov													
C.					O. Delle									
Rec'y	Rock Type/Alteration	Log Mineralization/Structure												
80	nite; highly fractured	Py, with minor bornite and cpy.	.3	M 7217	10				-					
85	Black, pyrite rich rk. w. highly altered andes ite or porphyry.	Py,bornite,malachite w.minor cpy; abundant hematite & limonite:good mineralization from 16-20'.	2	M 7218	10	Tr	0.10	0.18 0	•01					
85	green, andesitic rk.	Py:minor bornite; some native copperations fractures.	er .5	м 7219	10	Tr	0.20	.09						
95	Altered porphyry w. limonite stained fract chlorite along fract. (slips)	Dissem.py,bornite,& very minor cpy:native Cu along fractures (.1	.%) 1	м 7220	10	Tr	0.20	.06 0	.01					
95	11 11	11 11	.5	M 7221	10	Tr	0.20	.04						
95	tt tt	11 11	<.5	M 7222	10	Tr	0.30	.04						
95	7 11 11	11 11	₹.5	M 7223	10	Tr	0.20	.05						
95	17 11	11 11	.3	M 7224	10	Tr	0.20	.05						
	80 85 95 95	Rec'y Rock Type/Alteration  Light green, dense mylonite; highly fractured w. abundant hematite & limonite.  Black, pyrite rich rk. w. highly altered andesite or porphyry.  Brecciated dense, light green, andesitic rk. w. some phenos of felds.  Altered porphyry w. limonite stained fract. (slips)  95 "" "  95 "" "  95 "" "	Project No.:    Project No.:   34	Project No.: 34  Dip -45° Collared Oct. 28  Bearing 250° Completed Nov.  Rec'y Rock Type/Alteration Graphic Log Mineralization/Structure  Bight green, dense mylonite; highly fractured w.abundant hematite & limonite.  Black, pyrite rich rk. w.highly altered andestite or porphyry.  Brecciated dense, light green, andestitic rk. w. some phenos of felds.  Brecciated dense, light green, andestitic rk. w. some phenos of felds.  Altered porphyry w. limonite stained fract. chlorite along fract.  Altered porphyry w. limonite stained fract. (slips)  Py;minor bornite; some native copper along fractures.  Dissem.py,bornite, & very minor cpy: native Cu along fractures (.1%) 1  Dissem.py, bornite, & very minor cpy: native Cu along fractures (.1%) 1  Some phenos of the distribution of the complex	Project No.:    34	She to the property of the pro	Sheet No.   Sheet	Sheet No.   1	Sheet No.   1					

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NODAR	A D A	EXDI	ORATION C		Th Property:	WILLOW			Hol	e No.	N	W-4			
NOKAI	ADA	EXPL	ORATION C	O. L	Project No.:	34			She	et No	. 2				
Lat.			Elev.		Dip	Collared			Cor	e Size					
Dep.			Depth		Bearing	Completed	Completed			Logged by: G. Belik					
Footage Rec'y Rock Type/		ock Type/Alteration	Graphi	Mineralization/Struct	Mineralization/Structure		Sample No.	Cr	est <sup>As</sup>	says					
<del> </del>	ļ	ļ <u> </u>		Log		·	Sulfides	140.	Lt.	. Au	Ag	Cu	Ni		
90-100	95	rt	11		11 11		.3	M 7225	10	Tr	0.1	0.02			
100-110	95	11	tt .		11 11		.3	м 7226	10	Tr	0.2	0.02			
110-120	95	11	tt .		No native Cu.		.3	М 7227	10	Tr	0.1	0.01			
120-130	95	11	***		11 11		.5	M 7228	10	Tr	0.2	0.01			
130-140	95	130-140	2:As above. D:Dense,light gr- desitic rock		130-132:Dissem.bornite; 132-140:Minor py.	• Py ≈ 1%	.4	м 7235	10	Tr	Tr	0.01	0.01		
140-150	90		tic siltstone & brecciated & d.		Ру		1.5	м 7229	10	Tr	0.3	0.01			
150-160	40	graphit	e of brecciated tic siltstone, a qtz.felds.porph-		Ру		.5	м 7230	10	Tr	0.4	Tr			
160-170	70	Graphit yry.	tic shale & porph-		Py, Minor bornite.		.3	M 7231	10	Tr	0.3	Tr			

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NODAN		r v Di	OD ATION			•	Hole No. NW-4											
NOKAN	NDA	EXPL	CKAHON	CO.	CO. LTD. Property: WILLOW Project No.: 34								Sheet No. 3					
Lat.			Elev.		Dip	Collared			Core Size									
Dep.			Depth		Bearing	Completed			Logged by: G. Belik									
Footage	Rec'y	R	ock Type/Alteration	Grapi Log			% Sulfides	Sample . No.	Cr	es As	ssays							
170-180	50	Brecci silts	lated graphitic	:	Minor py		• 2	м 7232			Ag 0.3							
180-190	70	ŤŤ.	H		11 11		.2	M 7233	10	Tr	0.3	Tr						
190-197	40	11	11		tt tf		.2	М 7234	7	Tr	0.2	0.01						
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			, * .		-													