SAMPLE No.	PLACE	LOCATION		WIDTH	PER CENT	TYPE	SAMPLED BY
A 684	Aspen Grove	Hole #8	325' - 332'		0.12	D.D.H.	N.V.
A 685	"	Hole #9	84' - 94'	10'	0.35	"	"
A 686	"	"	94' - 104'	10'	0.35	"	"
A 687	"	"	104' - 115'	11'	0.45	"	"
A 688	"	"	160' - 170'	10'	0.40	"	"
A 689	"	"	170' - 178'	8'	0.67	"	"
A 690	"	"	178' - 183'	10'	0.37	"	"
A 691	"	"	193' - 203'	10'	0.35	"	"
A 692	"	"	203' - 213'	10'	0.35	"	"
A 693	"	"	213' - 223'	10'	0.22	"	"
A 694	"	"	223' - 230'	7'	0.17	"	"
A 695	"	Hole #7,	300' - 310'	10'	0.10	"	"
A 696	"	"	340' - 350'	10'	0.07	"	"
A 697	"	Hole #6,	40' - 50'	10'	0.20	"	"
A 698	"	"	80' - 90'	10'	0.22	"	"
A 699	"	Hole #5,	310' - 320'	10'	0.15	"	"
A 700	"	"	470' - 480'	10'	0.22	"	"
	"	Hole #4,	40 - 50	10'	0.30	"	
	"	"	100 - 110'	10'	0.17	"	
	"	Hole #3,	40' - 50'	10'	0.17	"	

ZM. 6-58. C.&S.

862107
Aspen Grove

A 655	"	Wells Upper Pit D 2		0.80	"	"
A 656	"	Hole #8 48' - 55'		0.32	D.D.H.	"
A 657	"	" 55' - 65'		0.25	"	"
A 658	"	" 65' - 75'		0.55	"	"
A 659	"	" 75' - 82'		0.85	"	"
A 660	"	" 85' - 97'		1.02	"	"
A 661	"	" 97' - 105'		0.17	"	"
A 662	"	" 105' - 115'		0.12	"	"
A 663	"	" 115' - 125'		0.17	"	"
A 664	"	" 125' - 135'		0.42	"	"
A 665	"	" 135' - 145'		0.17	"	"
A 666	"	" 145' - 155'		0.12	"	"
A 667	"	" 155' - 165'		0.15	"	"
A 668	"	" 165' - 175'		0.07	"	"
A 669	"	" 175' - 185'		0.12	"	"
A 670	"	" 185' - 195'		0.22	"	"
A 671	"	" 195' - 205'		0.17	"	"
A 672	"	" 205' - 215'		0.40	"	"
A 673	"	" 215' - 225'		0.30	"	"
A 674	"	" 225' - 235'		0.35	"	"
A 675	"	" 235' - 245'		0.15	"	"
A 676	"	" 245' - 255'		0.25	"	"
A 677	"	" 255' - 265'		0.22	"	"
A 678	"	" 265' - 275'		0.17	"	"
A 679	"	" 275' - 285'		0.27	"	"
A 680	"	" 285' - 295'		0.32	"	"
A 681	"	" 295 - 305'		0.15	"	"
A 682	"	" 305' - 315'		0.20	"	"
A 683	"	" 315' - 325'		0.22	"	"

RW 5.68. C.S.B.

92 H/15

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 2

Lat. 60c 32S/10 + 50W Dip. -45° Elev. Start Aug. 8, 1956

Dep. Bearing N 86° E Depth 565' End Aug. 15, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0 - 6	E.core		Breccia	V.sli.Cp. Sli. Py						
6 - 15.8	A. core		Breccia	E.py. sli.cp.	A 197 A 198	6-11 11-15.8	0.22 0.12			
15.8 - 16.5			vfg.dike							
16.5-34.0			Breccia	T. to P.Py.						
			sections f.p. nil to sli. cp.							
34 - 46	A core		Breccia -	two narrow f.p. dikes -						
			rusty @ 36', 42',& 43'-46' sli. to							
			F.py. V.sli.Cp.							
46 - 66	E core		Breccia	Sli. to good py.	A 199 A 200	46-51 51-56	0.30 0.30			
			Sli.rust	V.sli to sli. Cp.	A 701 A 702	56-61 61-66	0.40 0.45			
66 - 72.5			Breccia	Broken and well rusted						
			sli.sulphides, Tr.Cp.							
72.5 - 76			t.p.dike	xols show lineation						
			Fe stain							
76 - 100			Breccia -narrow dikes totalling							
			7' -breccia sli. to F. Py.							
100 - 120			Mostly dike with some Breccia							
			in narrow	sections, sli.sulphides						
				in Breccia						
120 - 143			Mostly Breccia with narrow							
			f.g. sections of F.P.(approx. 3')							
			Breccia F.py + v.sli. Cp.							
143 - 148			Dike - dark v.f.g.							
148 - 176.5			Breccia -	some sli.dike (2')						
			sli.py. -	Tr. to V.sli. Cp.						
176.5- 187			Mostly dike - some minor Breccia							
187 - 222			Breccia -	few v. narrow v.f.g.	A 703 A 704	187-192 192-197	0.10 0.15			
			+ f.p.dikes		A 705 A 706	197-203 203-208	0.10 0.20			
			sli.py.		A 707 A 708	208-213 213-218	0.12 0.07			
					A 709	218-222	0.10			

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 2

D. D. H. No. 2

Lat. 32 S / 10.50 W Dip. -45° Elev. Start Aug. 8, 1956

Dep. Bearing N 86° E Depth 565 End Aug.15, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
222 - 247			Mainly f.p., some Fe stain		A 710	244-249	0.15			
			+Hb.p.dike		A 711	249-254	0.17			
247 - 269			Breccia	Sli.-F.py., V.sli.Cp.	712	254-259	0.07			
269 - 296			Dike	v.f.g. dark	A 713	259-264	0.10			
			Sli-F.Py -	sheared & fractioned	A714	264-269	0.15			
			- very blocky							
296 - 344			Poor Breccia, with some dikes							
			(5') f.p.							
			V.sli. to sli.py.							
344 - 380			Breccia - with some dikes		A 715	344-349	0.60			
			(8') Sli.-F.py.		A 716	349-354	0.27			
			V.sli. to F. Cp.		A 717	354-359	0.15			
					A 718	359-364	0.42			
					A 719	364-369	0.50			
					A 720	369-374	0.30			
			Very rough log. -		A 721	374-379	0.15			
					A 722	379-384	0.22			
			End of hole - 565'							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 3

D. D. H. No. 2

Lat. 32S / 10.50 W Dip. -45° Elev. Start Aug. 8, 1956

Dep. Bearing N.86° E. Depth 565' End Aug.15, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
344 - 400			Breccia with some dikes		A 723	384-389	0.35			
			(12')	Sli. F.Py.	A 724	389-394	0.25			
			V.Sli. - F. CP.		A 725	394-400	0.22			
400 - 405			Dike (tuff?) (F.P.?)		A 726	400-405	0.55			
			with minor Breccia		A 727	405-410	0.15			
			sli. sulphides		A 728	410-415	0.25			
405- 465			Breccia - lighter colored		A 729	415-420	0.12			
			sli - F.Py. V.sli - Sli.CP		A 730 A 731	420-425 425-430	0.55 0.17			
			2.5 H6 porphyry @ 417'		A 732 A 733	430-435 435-440	0.12 0.12			
465 - 483			Breccia - minor dike, f.p.		A 734 A 735	440-445 445-450	0.09 0.52			
			Breccia becomes darker		A736 A 737	450-455 455-460	0.22 0.12			
			some chlorite - sli.py.		A 738	460-465	0.22			
			V.sli. CP							
483 - 495			Brecciated dark dense green							
			V. sli. py.							
495 - 538			Breccia - good - chloritized							
			V.sli. py. Tr. CP. (507'-510'							
			poorer dark Breccia) some							
			dike.	@ 510' 2" of good	A 739	538-543	0.10			
			sulphide in dark		A 740	543-548	0.17			
			Breccia		A 741	548-553	0.45			
538 - 565			Breccia - dark, chloritized		A 742	553-558	0.25			
			sli.- F.py. V.Sli - sli CP		A 743	558-563	0.20			
					A 744	563-565	0.20			
			End of hole - 565'							
			Bit size - EXT.							
			Left in hole - 47' EXT casing + one EXT shoe.							
			Diamond Drilling Co. - Mutch Diamond Drilling, Vancouver							
			Logged by - M. Menzies, H. Veerman & K. Olien.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 3

Lat. 60C 32S/10+50W Dip. -45° Elev. Start Aug. 17, 1956

Dep. Bearing True South Depth 501 End Aug. 22, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0 - 1.5			Casing							
1.5 - 6.5			Breccia -	(mostly E. core)						
				Sli.-F Py. V.Sli.Cp.						
6.5 - 10.0			Dike - F.P.	(possible fragments?)						
				(A core) Sli Py.						
10 - 26			Breccia-good-fragments vary in		A 745	10-15	0.30			
			size up to	several inches.	A 746	15-20	0.20			
				F.Py.-Sli.F.Cp.	A 747	20-25	0.17			
24'			Rusted section of Breccia							
26 - 45			Breccia	Sli.Py.-V.Sli.Sli.CP	A 748	25-30	0.27			
			End of A.	core	A 749	30-35	0.25			
45 - 52			Dike - f.p.	- V.Sli. Sulphides	A 750	35-40	0.20			
49'			Rusted Section		A 751	40-45	0.20			
					A 752	52-57	0.22			
52 - 89.5			Breccia -	some narrow dike	A 753	57-62	0.40			
				sections (5')	A 754	62-67	0.40			
			Sli-G.Py.-V.Sli.-Sli.C.P.		A 755	67-72	0.17			
			F.Cp. in places		A 756	72-77	0.27			
89.5- 98			Dike - Hb + f.p.		A 757	77-82				
98 - 139.5			Breccia -	good, F. Py.	A 758	82-87				
				V. Sli.-Sli CP.	A 759	87-89.5				
139.5-144			Dike - f.p.	- sli.sulphides	A 760	98-103				
144 - 161			Breccia -	better developed	A 761	103-108				
			+ lighter colored at end of		A 762	108-113				
			section		A 763	113-118				
161-171			Dike - massive - slighly		A 764	118-123				
			fragmented		A 765	123-128				
171 - 184			Dike,- porphyry - feldsper		A 766	128-133				
					A 767	133-138				

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 2

D. D. H. No. 3

Lat. 60C.32S/10 + 50W Dip. -45° Elev. Start Aug. 17, 1956

Dep. Bearing True south Depth 501 End Aug. 22, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
184 - 211			Breccia - bleached light green		A 768	138-139.5				
					A 769	Handpick				
			Last 4 ft.							
			Py.-Sli to F, CP - Nil to Tr.							
211 - 226.5			Dike - pink or red-grey porphyry,							
			Tr.Sulphides, becomes greenish @ 219'							
226.5 - 263			Breccia - massive & less distinct.							
			Py.-V.sli. CP. - Tr.							
263 - 288			Breccia - fairly good - some							
			narrow dikes or large fragments							
			of dark dense F.P.					Logged by K. Olien		
			Py.-V.sli to sli, CP - V.sli.						H. Veerman	
288 - 321			Breccia with about ⅓ dike					Drilled by Mutch Diamond		
			Breccia is good - Almost no						Drilling Co.	
			sulphides in dike but Py - V.Sli to Sli					Bit size - Axt.		
			& CP. V.sli. in Breccia					Left in hole - Nil		
321 - 360.5			Breccia - good, a few narrow							
			dikes (pinkish green)					Dip tests taken		
			Py - V.sli. to sli. CP - V.sli					100' - 52°		
360.5-369.5			Dike - F.P.-reddish purple					300' - 48°		
			matrrix & greenish lath-like					500' - 50°		
			xals of felds.				Note:	Angles not corrected		
369.5-501.0			Breccia - good - well developed -							
			some fragments have pink edges							
			while others are completely pink -							
			Some fractures are filled with the							
			pink material. A few narrow F.P.dikes.							
				Py - V.sli. CP - Tr. toV.sli.						
			End of D.D.H. #3							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 4

Lat. 32 S Dip. -50° Elev. Start Aug. 24, 1956

Dep. 10 + 50 W Bearing North Depth 502.5' End Aug. 28, 1956.

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 11			Casing							
11 - 30.5			Breccia	Sli.py. Sli.Cp.						11'-53.5' A core
30.5- 38.5			Dike							
38.5- 61.5			Breccia	Sli.Py. Sli. Cp.						Rust 39'-40.5'
61.5 - 95			"	V.Sli.Sulph. Tr.Cp.						
95 -100			Flsp.porph.	Sli.Py. Nil Cp.						
100 - 107.5			Breccia	Sli.Py. V.Sli. Cp.						very dark color.
107.5-139			Dike	V.Sli.Sulph. Nil Cp.						minor breccia
139 - 243			Breccia	Almost no sulph.						some dike
243 - 327			Breccia	V.Sli.Sulph. Tr.Cp.						minor dike,greenis
327 - 359		95%	Breccia	Sli.Py. Tr.Cp.						minor dike,chl.ep.
359 - 362		90%	Porph.dike	Sli.Py.						chl.
362 - 410		90%	Breccia	Sli.Py.Tr.Cp.						minor dike
410 - 438		90%	Breccia &	dike, V.Sli.Py.Tr.Cp.						chl. 40% dike
438 - 471		95%	Dikes	V.Sli.Py. Tr.Cp.						Flsp.porph. etc.
471 - 502½		90%	Breccia	Sli.Py. Tr.Cp.						some dike
502½			End of hole							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 5

Lat. 32 S Dip. - 45° Elev. Start Aug. 30, 1956

Dep. 13 W Bearing East Depth 502' End Sept. 5, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 7'			Casing							7 - 55'-A.core
7 - 58		95%	Breccia	Sli. Py. Tr. Cp.						some dikes ep.
58 - 84.5		100%	Breccia-dike	V.Sli.Py. Tr.Cp.						high ep.
84.5- 92		100%	hbl.poeph.	Nil						
92 - 205		95%	Breccia	V.Sli. Py. Tr.Cp.						ep.chl.minor dike
205 - 243		90%	Breccia-dike	V.Sli. Py. Tr. Cp.						ep.flsp.hbl.porph.
243 - 252		80%	Bre.-dike	V.Sli.Py. Tr. Cp.						heavy shearing
252 - 283		100%	"	V.Sli.Py. Tr. Cp.						ep. chl.
283 - 287		90%	Breccia	Nil						shearing calc.vein
287 - 302		100%	Dike Breccia	Tr.Py.						
302 - 306		80%	Breccia	Tr.Py.						shearing calc.ep.
306 - 402		90%	Breccia	Sli.Py. Tr.Cp.						purple dikes
402 - 420		80%	Breccia	V.Sli. Py.						calc.ep. chl.
420 - 465		90%	"	V.Sli. Py. Tr.Cp.						shearing @ 432'
										and 462'
465 - 502		95%	Breccia	Sli.Py. V.Sli.Cp.						green
502			End of hole.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 6

Lat. 27 S Dip. -45° Elev. Start Sept. 5, 1956

Dep. 4 W Bearing East Depth 420 End Sept. 14, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 23			Casing							
23 - 51		80%	Fldsp.por.	Sli-Fair Py.						
51 - 81		90%	F.hbl.por.	V. Sli. Py.						chl.
81 - 103		90%	Feldsp. por.	Sli. Py.						
103 - 216		80%	F.hbl. por.	V.Sli. Py.						
216 - 225		95%	dike	Sli. Py.						dark col. sh.
225 - 233		90%	tuff or por.	Tr. Py.						
233 - 240		100%	dike	Tr. Py.						dark col.
240 - 292		60%	Alt. dike	Nil					)	strongly alt.
292 - 340		60%	"	Nil					)	shearing
340 - 420		70%	"	Nil					)	lighter and
420			End of	hole						dark col.
				Bit lost at 420'						
				Hole discontinued						
				Ax core: 23' - 26'						
				Ex core: 26' - end						
				Dip test @ 100'	48°					
				Dip test @ 260'	51°					

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 7

Lat. 2 S Dip. 45° Elev. Start Sept. 15, 1956

Dep. 2 + 09 W Bearing West Depth 503 End Sept. 21, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 6			Casing							
6 - 61		90%	Breccia	Tr. Py.						@ 38' shearing
61 - 73		100%	Lava	Nil						
73 - 136		90%	Breccia	Tr. Py.						ep.
136 - 138		100%	Dike	Nil						
138 - 182		90%	Lava	Tr. Py. Cp.						ep.
182 - 240		95%	"	Nil						ep.
240 - 301		100%	"	Tr. Py.						
301 - 308		80%	cp. rock	Tr. Py. Cp.						
308 - 333		95%	Lava	Tr. Py.						calc. ep.
333 - 378		100%	Porph. volc.	Tr. Py. Cp.						green, hbld. porph.
378 - 428		90%	Lava	Tr. Py.						
428 - 437		80%	Greenstone	Nil						broken, alt.
437 - 503		90%	Lava	Tr. Py.						some hbld. porph.
503			End of hole							
				6' - 31' Ax core						
				31' - 503' Ex core						
				Dip test @ 100' - 49°						
				@ 300' - 48°						
				@ 500' - 49°						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 8

Lat. 0 + 14 N Dip. -45° Elev. Start September 22, 1956

Dep. 14 + 49 W Bearing S Depth 332' End September 26, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 19			Casing							
19 - 48		50%	Lava	Tr. Py. Cp.						oxidized, broken
48 - 82		70%	Lava	V.Sli. sulph.(Tr.Cp.)						
82 - 86		90%	Fldsp.por.ph.	nil						dike or sill (?) purple color
86 - 97		100%	Lava + dike	V.Sli.sulph. V.Sli.Cp.						
97 - 123		90%	dike or sill	Tr. Py. Cp.						
123 - 133		100%	"	V. Sli. Cp.						
133 - 225		90%	"	Tr. Cp. Py.						
225 - 286		100%	Breccia	Tr. Cp. Py.						fragmental lava
286 - 290		100%	"	V.Sli. Cp. Py.						chl. ep.
290 - 332		95%	"	Tr. Cp. Py.						
332			End of hole.							
				Ax core 19' - 30'						
				Ex core 30' - 332'						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 9

Lat. 75 S Dip. - 45° Elev. Start Sept. 29, 1956

Dep. 13 + 10 W Bearing W Depth 452' End Oct. 4, 1956

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 16			Casing							
16 - 17		100%	Granite rock, prob. boulder							
17 - 65.5		90%	Greenstone	Tr. Py. Cp.						Some brecc.
65.5- 70		90%	"	V.Sli. Cp. Tr. Py.						Minor brecc.
70 - 80		90%	"	V.Sli. Cp. Tr. Py.						brecc.
80 - 84		80%	Feldsp.por.	V.Sli. Cp.						dike or sill.
84 - 104		100%	Greenstone	Sli. Cp.						brecc.qu.veinl.
104 - 109		90%	Feldsp.por.	Sli. Cp.						dike or sill.
109 - 115		90%	Greenstone	Sli. Cp.						some brecc.
115 - 124		100%	Feldsp.por.	Sli. Py. Tr. Cp.						some fragments
124 - 160		100%	"	Sli. Py. Tr. Cp.						"
160 - 183		90%	"	Sli. Cp.V.Sli. Py.						qu. calc. veinl.
183 - 193		100%	F.p.-Gr.s.t	V.Sli. Py. Cp.						contact
193 - 230		100%	Greenstone	V.Sli. cp. Tr.Py.						some brecc.
230 - 254		100%	Lava	V. Sli.Py. Tr.Cp.						
254 - 270		100%	"	V. Sli.Py. Tr.Cp.						chl. ep.
270 - 283		100%	Ep. Lava	Tr. Py. Cp.						strong ep.
283 - 288		100%	Greenstone	V.Sli. Py. Cp.	283-293		0.22			some brecc.
288 - 340		100%	"	Tr. Py. Cp.						
340 - 402		100%	"	Tr. Py. Cp.						
402 - 410		100%	Fldsp.hbl.p.	nil						
410 - 452		100%	Greenstone	Tr. Py. Cp.						heavy ep.
452			End of hole.							
			Dip test	at 100' 52°						
				at 240' 55°						
				at 440' 50°						
			Ax core	16' - 31.5'						
			Ex core	31.5'- 452'						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove SHEET No. 1

D. D. H. No. 2

at. Lone 325/10+50W Dip. -45° Elev. Start Aug 8/56

Dep. Bearing N 86° E. Depth 565' End Aug 15/56

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0 - 6	E core		Breccia	V sl. Cp, sl. Py	A197	6-11	0.22			
6 - 15.8	A core		Breccia	F py, sl. Cp	198	11-15.8	0.12			
15.8 - 16.5			v f g dike							
16.5 - 34.0			Breccia	T. to F py						
			sections f.p.	nil to sl. Cp.						
34 - 46	A core		Breccia -	Two narrow f.p.						
			dikes - rusty @ 36', 42,							
			+ 43'-46'	sl. to F py, V sl. Cp						
46 - 66	E core		Breccia	sl. to good py	A199	46-51	0.30			
					A200	51-56	0.30			
			sl. rust	V sl. to sl. Cp.	A701	56-61	0.40			
					2	61-66	0.45			
66 - 72.5			Breccia	broken + well rusted						
			sl. sulphides	Tr Cp.						
72.5 - 76.0			f.p. dike	rate show location						
			Fe stain							
76.0 - 100.0			Breccia -	narrow dikes f.p. throughout						
			7' - Breccia	sl. to F py.						
100 - 120			Mostly dike	with some Breccia						
			in narrow	sections sl. sulph.						
				in Breccia						
120 - 143			Mostly Breccia	with narrow						
			f.g. sections	of f.p. (approx 3')						
			Breccia	F py + V sl. Cp						
143 - 148			Dike -	dark v f g						
148 - 176.5			Breccia -	some sl. dike (2').						
			sl. py	- Tr to V sl. Cp.						
176.5 - 187			Mostly dike	- some minor						
			Breccia							
187 - 222			Breccia -	few v. narrow	A703	187-192	0.10			
			v f g. + f. p. dikes		4	192-197	0.15			
					5	197-203	0.10			
					6	203-208	0.20			
			sl. py.		7	208-213	0.12			
					8	213-218	0.07			
					9	218-222	0.10			

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove SHEET No. 2

D. D. H. No. 2

at: 325/10.50 W Dip. -45 Elev. Start Aug 8/56

Dep. Bearing N 86° E Depth 565 End Aug 15/56

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
222 - 247			Mainly f.p.	some Fe stain	A710	244-249	0.15			
			+ Hb p	dike	A711	249-254	0.17			
247 - 269			Breccia	sl.-F py, Vsl. Cp.	A712	254-259	0.07			
269 - 296			Dike	vfg. dark	A713	259-264	0.10			
			sl.-F py	- sheared + fractured	A714	264-269	0.15			
			- very blocky							
296 - 344			Poor Breccia	with some						
			dikes (.5') f.p.							
			V. sl. to sl. py.							
344 - 360'			Breccia	- with some	A715	344-349	0.60			
			dikes (8')	sl.-F py	A716	349-354	0.27			
			V. sl. t. F Cp.		A717	354-359	0.15			
					A718	359-364	0.42			
					A719	364-369	0.50			
					A720	369-374	0.30			
			very rough log.	-	A721	374-379	0.15			
					A722	379-384	0.22			
			End of hole - 565'							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove SHEET No. 3.

D. D. H. No. 2

Loc at 325/10.50W Dip. -45° Elev. Start Aug 8/56

Dep. Bearing N 86° E Depth 565 End Aug 15/56

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
344-400			Breccia	with some dikes	A723	384-389	0.35			
			(62')	sl. - F. Py	A724	389-394	0.25			
				V.sl. - F. CP	A725	394-400	0.22			
400-405			Dike (Tuff?) (f.p.?)		A726	400-405	0.55			
			with minor Breccia		A727	405-410	0.15			
			sl. sulphides		8	410-415	0.25			
405-465			Breccia	- lighter colored	9	415-420	0.12			
			sl. - F. Py V.sl. - sl. CP		A730	420-425	0.55			
					A731	425-430	0.17			
			2.5 Hb porphyry @ 418'		A732	430-435	0.12			
					A733	435-440	0.12			
465-483			Breccia	- minor dike f.p.	A734	440-445	0.09			
					A735	445-450	0.52			
			Breccia becomes darker		A736	450-455	0.22			
					A737	455-460	0.12			
					A738	460-465	0.22			
			some chlorite. - sl. py							
			V.sl. CP							
483-495			Brecciated dark dense							
			green - V. sl. py.							
495-538			Breccia - good. - chloritized							
			V.sl. py. Tr. CP. (507' - 510'							
			poorer dark Breccia) some							
			dike. @ 510' 2" of		A739	538-543	0.10			
			good sulphide in dark		A740	543-548	0.17			
			Breccia		A741	548-553	0.45			
538-565			Breccia - dark, chloritized		A742	553-558	0.25			
			sl. - F. py. V.sl. - sl. CP		A743	558-563	0.20			
					A744	563-565	0.20			
			End of Hole -		565'					
			Bit size - EXT.							
			left in hole - 47' EXT casing + ONE EXT shoe.							
			Diamond Drilling Co - Hutch Diamond Drilling, Vancouver.							
			Logged by - M. Menzies, H. Veerman + K. Olsen							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove. SHEET No. 1.

D. D. H. No. 3.

Loc at. 325/10+50W Dip. -45° Elev. Start ~~Sept~~ Aug. 17

Dep. Bearing True South. Depth 501 End ~~Sept~~ Aug 22.

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0-1.5			Casing							
1.5-6.5			Breccia (mostly E core)							
			sli - F py. V sli Cp							
6.5-10.0			Dike - f.p. - (possible							
			fragments ?) (A core)							
			Sli py.							
10 - 26			Breccia - good - Fragments		A745	10-15	0.30			
			very in size up to several		6	15-20	0.20			
			inches F. py - sli - F CP.		7	20-25	0.17			
24'			Rusted section of		8					
			Breccia.							
26'-45'			Breccia - sli py - Vsli - sli CP.		8	25-30	0.27			
			End of A - core.		9	30-35	0.25			
45'-52.			Dike - f.p. - V sli sulphides.		A750	35-40	0.20			
49'			Rusted section.		1	40-45	0.20			
					2	52-57	0.22			
52 - 89.5			Breccia - some narrow		3	57-62	0.40			
			dike sections (5').		4	62-67	0.40			
			Sli - G. py. - Vsli - sli CP		5	67-72	0.17			
			F. CP in places.		6	72-77	0.27			
89.5 - 98.			Dike - Hb + f.p.		7	77.82				
98 - 139.5			Breccia - good, F. py.		8	82-87				
			V. sli - sli CP.		9	87-89.5				
139.5-144			Dike - f.p. - sli sulphides.		A760	98-103				
144 - 161			Breccia - better developed		1	103-108				
			+ lighter colored at end of		2	108-113				
			section.		3	113-118				
161 - 171.			Dike - massive - slightly		4	118-123				
			fragmented.		5	123-128				
171 - 184			Dike, - porphyry - feldspar		6	128-133				
					7	133-138				
184 - 211			Breccia - bleached light green		8	138-139.5				
					9	Handpick				

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove. SHEET No. 2.

D. D. H. No. 3.

Loc. at. 32 S/10+50W. Dip. -45° Elev. Start ~~Sept~~ Aug. 17

Dep. Bearing True south. Depth 501. End ~~Sept~~ Aug 22.

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
			lost 4 ft.							
			Py - Sl. to F, CP-Nil to Tr.							
211 - 226.5			Dike - Pink or red-grey porphyry							
			Tr. sulphides, Becomes greenish							
			@ 219'.							
226.5 - 263			Breccia - massive + less distinct.							
			Py - Vsli CP. - Tr.							
263 - 288			Breccia - fairly good - some							
			narrow dikes or large fragments							
			of dark dense FP.							Logged by - L. Olien
			Py - Vsli to sli, CP - Vsli							H. Veerman.
288 - 321.			Breccia with about 1/3 dike.							Drilled by. - Mutch Diamond
			Breccia is good - Almost							Drilling Co.
			no sulphides in dike but							Bit size - AXT.
			Py - Vsli to Sli + CP. Vsli							Left in hole - Nil.
			in Breccia.							
321 - 360.5			Breccia - good. a few							
			narrow dikes (pinkish green)							Dip Tests taken.
			Py - Vsli to sli, CP - Vsli.							100' - 52°
360.5 - 369.5			Dike - F.P. - reddish purple							300' - 48°
			matrix + greenish lath-like							500' - 50°
			xals of felds.							Note: Angles not corrected
369.5 - 501.0			Breccia - good - well developed -							
			some fragments have pink edges							
			while others are completely pink. -							
			Some fractures are filled with the							
			pink material. A few narrow							
			FP dikes.							
			Py - Vsli. CP - Tr to Vsli.							

END OF DDH #3

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 4

at. 32 S Dip. -50° Elev. Start Aug 24

Dep. 10+50 W Bearing North Depth 502.5' End Aug 28

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 11			Casing							
11 - 30.5			Breccia	Sli py. Sli Cp						11-53.5: A core
30.5 - 38.5			dike							
38.5 - 61.5			Breccia	Sli Py. Sli Cp.						Rust 39 - 40.5'
61.5 - 95			"	V. Sli. sulph. Tr. Cp.						
95 - 100			Flsp. porph	Sli. Py. Nil. Cp.						
100 - 107.5			Breccia	Sli. Py. V. Sli. Cp.						very dark colours
107.5 - 139			Dike	V. Sli. Sulph. Nil. Cp.						minor breccia
139 - 243			Breccia	almost no sulph.						some dike
243 - 327			Breccia	V. Sli. Sulph. Tr. Cp						minor dike. Green
327 - 359		95%	Breccia	Sli. Py. Tr. Cp.						minor dike. chl ep
359 - 362		90%	Porph. dike	Sli. Py						chl
362 - 410		90%	Breccia	Sli. Py. Tr. Cp.						minor dike
410 - 438		90%	Breccia & dike	V. Sl. Py. Tr. Cp						chl 40% dike
438 - 471		95%	dikes	V. Sl. Py. Tr. Cp.						Flsp. porph. etc
471 - 502½		90%	Breccia	Sl. Py. Tr. Cp.						some dike
502½			end of hole.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove SHEET No. 1

D. D. H. No. 5

at. 325 Dip. -45° Elev. Start Aug 30

Dep. 13 W Bearing East Depth 502' End Sept 5

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0-7'			casing							7-55'-A. core
7-58		95%	Breccia	Sli. Py. Tr. Cp.						Some dikes ep.
58-84.5		100	Breccia-dike	V. sli. Py. Tr. Cp.						high ep
84.5-92		100	hbl. porph.	nil						
92-205		95	Breccia	v. sli. py. Tr. Cp						ep. chl. minor dike
205-243		90	Breccia-dike	V. sli. py Tr. Cp						ep. tlsp. hbl. porph
243-252		80	Bre.-dike	V. sli. py. Tr. Cp						heavy shearing
252-283		100	"	v. sli. py Tr. Cp						ep. chl
283-287		90%	Breccia	nil						shearing. calc. vein
287-302		100	Dike & Breccia	Tr. Py						
302-306		80	Breccia	Tr. Py						shearing. calc. ep.
306-402		90	Breccia	Sli. Py. Tr. Cp.						purple dikes
402-420		80	Breccia	V. sli. Py						calc. ep. chl.
420-465		90	"	V. sli. Py. Tr. Cp.						shearing @ 432' and 462'
465-502		95	Breccia	Sli. py. V. sli. Cp						green
502'			end of hole.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 6

at. 27 S Dip. -45° Elev. Start Sept 5

Dep. 4 W Bearing East Depth 420 End Sept 14

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0-23			Casing							
23-51	~~80°~~	80%	Fldsp por.	Sli-Fair Py						
51-81		90	F. hbl. por	V. sli. Py.						chl.
81-103		90	Fldsp. por	sli. Py.						
103-216		80	F. hbl. por	V. sli. Py.						
216-225		95	dike	Sli. Py.						dark col. sh.
225-233		90	tuff or por	Tr. Py.						
233-240		100	dike	Tr. Py.						dark col
240-292		60	Alt dike	nil						strongly alt.
292-340		60	"	nil						shearing
340-420		70	"	nil						lighter and
420		end of	hole.							dark col
			Bit lost at 420' hole discontinued							
			Ax core : 23'-26'							
			Ex : 26'- end							
			Dip test @ 100'	48°						
			Dip test @ 260'	51°						

out

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 7

at. 25 Dip. 45° Elev. Start Sept. 15

Dep. 2 + 09 W Bearing West Depth 503 End Sept 21

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0-6			casing							
6-61		90%	Breccia	Tr. Py						@ 38' shearing
61-73		100%	Lava	nil						
73-136		90	Breccia	Tr. Py						ep.
136-138		100	dike	nil						
138-182		90	Lava	Tr. Py. Cp.						ep.
182-240		95	"	nil						ep.
240-301		100	"	Tr. Py.						
301-308		80	ep. rock	Tr. Py. Cp.						
308-333		95	Lava	Tr. Py						calc. ep.
333-378		100	Porph. volc	Tr. Py. Cp						green, hbld. porph.
378-428		90	Lava	Tr. Py.						
428-437		80	greenstone	nil						broken, alt
437-503		90	Lava	Tr. Py.						some hbld porph
503			end	of hole						
			6'-31'	Ax core						
			31-503'	Ex core						
			Dip test	@ 100'	-49°					
				@ 300'	-48°					
				@ 500	-49°					

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 8

at. 0 + 14 N Dip. − 45° Elev. Start Sept. 22

Dep. 14 + 49 W Bearing S Depth 332' End Sept. 26

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0-19			Casing							
19-48		50%	Lava	Tr. Py. Cp.						oxidized, broken
48-82		70	Lava	V. Sli. sulph. (Tr. Cp.)						
82-86		90	Fldsp. porph	nil						dike or sill (?)
86-97		100	Lava + dike	V. Sli. sulph. V. Sli Cp.						purple col
97-123		90	dike or sill	Tr. Py. Cp.						
123-133		100	"	V. Sli. Cp						
133-225		90	"	Tr. Cp. Py						
225-286		100	Breccia.	Tr. Cp. Py						Fragmental Lava
286-290		100	"	V. Sli. Cp. Py						chl. ep.
290-332		95	"	Tr. Cp. Py.						
332			end	of hole						
				A x core	19' - 30'					
				E x core	30' - 332'					

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C SHEET No. 1

D. D. H. No. 9

Lat. 75 S Dip. -45° Elev. Start Sept. 29

Dep. 13+10 W Bearing W Depth 452' End Oct 4.

1M-MP-556

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0-16			casing							
16-17		100	Granitic rock, prob. boulder							
17-65.5		90	Greenstone	Tr. Py. Cp.						Some brecc.
65.5-70		90	"	V.Sli. Cp. Tr. Py						minor brecc.
70-80		90	"	V.Sli. Cp. Tr. Py.						brecc.
80-84		80	Feldsp. por.	V. Sli. Cp.						dike or sill.
84-104		100	Greenstone	Sli. Cp.						brecc. qu. veinl.
104-109		90	Feldsp. por	Sli. Cp.						dike or sill.
109-115		90	Greenstone	Sli. Cp.						Some brecc.
115-124		100	Feldsp por.	Sli. Py. Tr. Cp.						Some fragments
124-160		100	"	Sli. Py. Tr. Cp						"
160-183		90	"	Sli. Cp. V. Sli. Py						qu. calc. veinl.
183-193		100	F.p.-Grst	V. Sli. Py. Cp.						contact
193-230		100	Greenstone	V. Sli. Cp. Tr. Py.						Some brecc.
230-254		100	Lava	V. Sli. Py. Tr. Cp						
254-270		100	"	V. Sli. Py. Tr. Cp						
270-283		100	Ep. Lava	Tr. Py. Cp.						chl. ep.
283-288		100	Greenstone	V. Sli. Py, Cp.						strong ep.
288-340		100	"	Tr. Py. Cp.						some brecc.
340-402		100	"	Tr. Py. Cp.						
402-410		100	Fldsp. hbl. p.	nil.						
410-452		100	Greenstone	Tr. Py. Cp.						heavy ep.
452			end of hole.							

Dip test at 100' 52°
at 240' 55°
at 440 50°

Ax core 16'-31.5'
Ex core 31.5'-452'

Replace DDH logs + sample reports in new file

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 151	ASPEN GROVE	42S - 31W		1.17		K. OLIEN
A152	" "	0S - 30W - GRAB SAMPLES FROM BULLDOZED E-W TRENCH	-	0.47		K. OLIEN
A153	" "	0S - 15W - SAMPLE FROM BULL'D. TRENCH ON BIG SIOUX		0.10		K. OLIEN
A154	" "	1S - 18W - BIG SIOUX TRENCH - WEST END	60-75'	0.15		" "
A155	" "	1S - 14W - BIG SIOUX TRENCH - EAST END	50'	0.25		" "
A156	" "	1S - 15.5W " " " - " " #2	50'	0.32		" "
A157	" "	2S - 16-17W " " " - " " #3	50'	0.47		" "
A158	" "	2S - 36.75W - PIT - 12'x4' @ 4' INTERVALS		0.15		A. STURM.
A159	"	1N - 35W - PIT 20x30' @ 4' "		0.30		A. STURM.
A160	" "	32W - 4S OUTCROP -	2'	0.85		" "
A161	" "	1N - 26.5W - TRENCH - @ 3' INTERVALS	40'	0.20		" "
A162	" "	1N - 29W - BULL'D. TRENCH RUNNING N-S @ 5'	100'	0.17		" "
A163	" "	1N - 23W - W END CINCINNATI TRENCH @ 5'	45'	0.10		" "
A164	" "	1N - 23W - E. " " " @ 5'	70'	0.20		" "
A165	" "	1S - 15W - FROM DUMP BESIDE PIT	25'	0.50		" "
A166	" "	1S - 14.5W - PIT - 6'x6' @ 3'		0.32		" "
A167	" "	3S - 3W PIT - 6'x5' @ 2'		1.05		" "
A168	" "	4N - 12.5W - FROM DUMP BESIDE PIT - 6'x5' @ 4'		0.60		" "
A169	" "	2N - 2.25W - PIT - 7'x5' @ 2'		0.15		" "
A170	" "	5 5S - 20W - TRENCH @ 4'	30'	0.15		" "
A171	" "	3.75S - 18W PIT 7x7' @ 3'		0.17		" "
A172	" "	2N - 19W TRENCH @ 2'	35'	0.25		" "
A173	" "	5.25 - 24.5W - GRAB SAMPLES FROM CLIFF		0.72		" "
A174	" "	0S - 27W - E-W. BULL'D TRENCH @ 5'	50'	0.15		" "
A175	" "	0S - 27.5W - " " " "	50'	0.15		" "
A176	" "	0S - 28W " " " "	50'	0.12		" "
A177	" "	0S - 28.5W " " " "	50'	0.12		" "
A178	" "	0S - 29W " " " "	50'	0.12		" "
A179	" "	0S - 29.5W " " " "	50'	0.07		" "
A180	" "	0S - 30W " " " "	50'	0.10		" "
A181	" "	0S - 3.5W " " " "	60'	0.17		" "
A182	" "	4S - 17W - BULL'D TRENCH @ 5'	30'	0.12		" "
A183	" "	2N - 14.5W " " @ 5'	25'	0.02		" "

2M. 6-56. C. & S.

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A1	ASPEN GROVE	1S - 5.25W . 8'x6' @2' - PIT		0.62		A. STURM.
A1	" "	8S - 6W - TRENCH @2'	6'	0.17		" "
A186	" "	2.25S - 3.75W . PIT . 4'x3' @1'		0.25		" "
A187	" "	4S - 4W - OUTCROP - E-W @5'	55'	0.12		" "
A188		12S - 27.75 W	25'x7'@3'	0.15		
189		20S - 28 W - 10x5@3 pit		0.10		
190		32S - 31 W - 25'@3' across dump		0.65		
191		45.75S - 18W 10'@2 Trench		0.04		
192		53S - 12 W 8'@2' small pit		0.10		
193		56.50S - 5 W 10'x6@2' pit		0.12		
194		44 S - 8 W 40'@5' (E-W) outcrop		0.03		
195		12 S - 18 W 20'@3' (N-S) outcrop		0.07		
196		70 S - 30 W break.		6.52		

2M. 6-56. C. & S.

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 501	Aspen Gr.	Trench on E. side Holly 14.	18'	2.13	chip	H.V.
A 02	"	Trench - Pit. Holly 14.		2.65	grab	A.B.-B.O.B.
A 503	"	D.D.H. #7. 290'	½ ft.	0.15		A.B.-B.O.B.
A 504	"	Lowest bulld. trench, bald hill.		?	grab.	B.O.B.
A 505	"	Adit. Chalcos. 30'-79' from portal	49'	0.42	chip	H.V.
A 506	"	bulk sample, dump hi grade Chalcos		2.07		H.V.
A 507	"	same as A 506, check		0.10		H.V.
A 508	"	Trench Holly 14. E→W. 0-10'	10'	0.07	chip.	H.V.
A 509	"	10'-20'	10'	0.07	"	"
A 510	"	20-30'	10'	0.05	"	H.V.
A 511	"	30'-40'	10'	0.02	"	H.V.
A 512	"	40'-50'	10'	0.05	"	H.V.
A 513	"	50'-60'	10'	0.04	"	H.V.
A 514	"	60'-70'	10'	0.05	"	H.V.
A 515	"	Pit, Holly 14. E wall	8'	2.72	"	H.V.
A 516	"	D.D.H. #9. 283'-293'	10'	0.22		H.V.
A 517	"	Cincinatti. dump, shaft wall.		0.32	grab	H.V.
A 518	"	dump W. side road. Cincin.		0.12	grab	H.V.

2M. 6-56. C. & S.

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A '51	Aspen Grove	Dump, mine on Chalco 2		1.10	Grab	H.V
A 52	"	One shoot mine on Chalco 2		0.50	"	"
A 653	"	Across shear Pit Chalco 2		1.65	chip	"
A 654	"	walls Pit D1 Chalco 5		0.42	chip	"
A 655	"	walls Upper pit D 2		0.80	chip	"
A 656	"	Hole # 8 48'-55'		0.32	D.D.H.	"
A 657	"	" 55'-65'		0.25	"	"
A 658	"	" 65-75		0.55	"	"
A 659	"	" 75-82		0.85	"	"
A 660	"	" 85-97		1.02	"	"
A 661	"	" 97-105		0.17	"	"
A 662	"	" 105-115		0.12	"	"
A 663	"	" 115-125		0.17	"	"
A 664	"	" 125-135		0.42	"	"
A 665	"	" 135-145		0.17	"	"
A 666	"	" 145-155		0.12	"	"
A 667	"	" 155-165		0.15	"	"
A 668	"	" 165-175		0.07	"	"
A 669	"	" 175-185		0.12	"	"
A 670	"	" 185-195		0.22	"	"
A 671	"	" 195-205		0.17	"	"
A 672	"	" 205-215		0.40	"	"
A 673	"	" 215-225		0.30	"	"
A 674	"	" 225-235		0.25	"	"
A 675	"	" 235-245		0.15	"	"
A 676	"	" 245-255		0.25	"	"
A 677	"	" 255-265		0.22	"	"
A 678	"	" 265-275		0.17	"	"
A 679	"	" 275-285		0.27	"	"
A 680	"	" 285-295		0.32	"	"
A 681	"	" 295-305		0.15	"	"
A 682	"	" 305-315		0.20	"	"
A 683	"	" 315-325		0.22	"	"
A 684	"	" 325-332.		0.12		

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 685	Aspen Gr.	D.D.H #9, 84'-94'	10'	0.35		H.V
A 686	"	" " , 94'-104'	10'	0.35		"
A 687	"	" " , 104-115'	11'	0.45		"
A 688	"	" " , 160-170	10'	0.40		"
A 689	"	" " , 170-178	8'	0.67		"
A 690	"	" " , 178-183	10'	0.37		"
A 691	"	" " , 193-203	10'	0.35		"
A 692	"	" " , 203-213	10'	0.35		"
A 693	"	" " , 213-223	10'	0.22		"
A 694	"	" " , 223-230	7'	0.17		"
A 695	"	D.D.H. #7, 300-310	10'	0.10		"
A 696	"	" " , 340-350	10'	0.07		"
A 697	"	D.D.H. #6, 40-50	10'	0.20		"
A 698	"	" " , 80-90	10'	0.22		"
A 699	"	D.D.H #5, 310-320	10'	0.15		"
A 700	"	" " 470-480	10'	0.22		"
	"	DDH #4 40-50	10'	0.30		
	"	" 100-110	10'	0.17		
	"	DDH #5 40-50	10'	0.17		

2M. 6-56. C. & S.

92 H/15

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 2

Loc. 600 32S/10 + 50W Dip. -45° Elev. Start Aug. 8, 1956

Dip Bearing N 86° E Depth 565' End Aug. 15, 1956

FOOT	GRADE	CORE RECOV.	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0 - 6	A. core		Breccia	V.sli.Cp. Sli. Py						
6 - 15.8	A. core		Breccia	M.py. sli.cp.	A 197 A 198	6-11 11-15.8	0.22 0.12			
15.8 - 16.5			vfg.dike							
16.5-34.0			Breccia	T. to F.Py.						
				sections f.p. nil to sli. cp.						
34 - 46	A core		Breccia --	two narrow f.p. dikes -						
				rusty @ 36', 42', & 43'-46' sli. to						
				F.py. V.sli.Cp.						
46 - 66	A core		Breccia	Sli. to good py.	A 199 A 200	46-51 51-56	0.30 0.30			
			Sli.rust	V.sli to sli. Cp.	A 701 A 702	56-61 61-66	0.40 0.45			
66 - 72.5			Breccia	Broken and well rusted						
				sli.sulphides, Tr.Cp.						
72.5 - 76			f.p.dike	xols show lineation						
				Fe stain						
76 - 100			Breccia -	narrow dikes totalling						
				7' -breccia sli. to F. Py.						
100 - 120			Mostly dike with some Breccia							
				in narrow sections, sli.sulphides						
				in Breccia						
120 - 143			Mostly Breccia with narrow							
				f.g. sections of F.P.(approx. 3')						
				Breccia F.py + v.sli. Cp.						
143 - 148			Dike - dark v.f.g.							
148 - 176.5			Breccia -	some sli.dike (2')						
				sli.py. - Tr. to V.sli. Cp.						
176.5- 187			Mostly dike -	some minor Breccia						
187 - 222			Breccia -	few v. narrow v.f.g.	A 703 A 704 A 705	187-192 192-197 197-203	0.10 0.15 0.10			
			+ f.p.dikes		A 706	203-208	0.20			
					A 707 A 708	208-213 213-218	0.12 0.07			
			sli.py.		A 709	218-222	0.10			

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 2

D. D. H. No. 2

Lat. 32 S / 10.50 W Dip. -45° Elev. Start Aug. 8, 1956

Dep. Bearing N 86° E Depth 565 End Aug.15, 1956

FOOT	GRADE	CORE RECV'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
222 - 247			Mainly f.p., some Fe stain		A 710	244-249	0.15			
			+Hb.p.dike		A 711	249-254	0.17			
247 - 269			Breccia	Sli.-F.py., V.sli.Cp.	712	254-259	0.07			
269 - 296			Dike	v.f.g. dark	A 713	259-264	0.10			
			Sli-F.Py -	sheared & fractioned	A714	264-269	0.15			
			- very blocky							
296 - 344			Poor Breccia, with some dikes							
			(5') f.p.							
			V.sli. to sli.py.							
344 - 390			Breccia - with some dikes		A 715	344-349	0.60			
			(8') Sli.-F.py.		A 716	349-354	0.27			
			V.sli. to V. Cp.		A 717	354-359	0.15			
					A 718	359-364	0.42			
					A 719	364-369	0.50			
					A 720	369-374	0.30			
			Very rough leg. -		A 721	374-379	0.15			
					A 722	379-384	0.22			
			End of hole - 565'							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 3

D. D. H No. 2

Lat. 32S / 10.50 W Dip -45° Elev. Start Aug. 8, 1956

Dep. Bearing N.86° E. Depth 565' End Aug.15, 1956

FOOT	GRADE	CORE REC'V	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
344 - 400			Breccia with some dikes		A 723	384-389	0.35			
			(12')	Sli. F.Py.	A 724	389-394	0.25			
			V.Sli. - F. CP.		A 725	394-400	0.22			
400 - 405			Dike (tuf??) (F.P.?)		A 726	400-405	0.55			
			with minor Breccia		A 727	405-410	0.15			
			sli. sulphides		A 728	410-415	0.25			
405 - 465			Breccia - lighter colored		A 729	415-420	0.12			
			sli - F.Py. V.sli - Sli.CP		A 730 A 731	420-425 425-430	0.55 0.17			
			2.5 M6 porphyry @ 417'		A 732 A 733	430-435 435-440	0.12 0.12			
465 - 483			Breccia - minor dike, f.p.		A 734 A 735	440-445 445-450	0.09 0.52			
			Breccia becomes darker		A736 A 737	450-455 455-460	0.22 0.12			
			some chlorite - sli.py.		A 738	460-465	0.22			
			V.sli. CP							
483 - 495			Brecciated dark dense green							
			V. sli. py.							
495 - 538			Breccia - good - chloritized							
			V.sli. py. Tr. CP. (507'-510'							
			poorer dark Breccia) some							
			dike. @ 510' 2" of good		A 739	538-543	0.10			
			sulphide in dark		A 740	543-548	0.17			
			Breccia		A 741	548-553	0.45			
538 - 565			Breccia - dark, chloritized		A 742	553-558	0.25			
			sli.- F.py. V.Sli - sli CP		A 743	558-563	0.20			
					A 744	563-565	0.20			
			End of hole - 565'							
			Bit size - EXT.							
			Left in hole - 47' EXT casing + one EXT shoe.							
			Diamond Drilling Co. - Mutch Diamond Drilling, Vancouver							
			Logged by - M. Menzies, H. Veerman & W. Olien.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 3

Lat. 60C 32S/10+50W Dip -45° Elev. Start Aug. 17, 1956

Dep. Bearing True South Depth 501 End Aug. 22, 1956

FOOT	GRADE	CORE RECV'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0			Collar							
0 - 1.5			Casing							
1.5 - 6.5			Breccia - (mostly E. core)							
				Sli.-F Py. V.Sli.Cp.						
6.5 - 10.0			Dike - F.P. (possible fragments?)							
				(A core) Sli Py.						
10 - 26			Breccia-good-fragments vary in		A 745	10-15	0.30			
			size up to several inches.		A 746	15-20	0.20			
				F.Py.-Sli.F.Cp.	A 747	20-25	0.17			
24'			Rusted section of Breccia							
26 - 45			Breccia	Sli.Py.-V.Sli.Sli.CP	A 748	25-30	0.27			
			End of A. core		A 749	30-35	0.25			
45 - 52			Dike - f.p. - V.Sli. Sulphides		A 750	35-40	0.20			
49'			Rusted Section		A 751	40-45	0.20			
					A 752	52-57	0.22			
52 - 89.5			Breccia - some narrow dike		A 753	57-62	0.40			
				sections (5')	A 754	62-67	0.40			
			Sli-G.Py.-V.Sli.-Sli.C.P.		A 755	67-72	0.17			
			F.Cp. in places		A 756	72-77	0.27			
89.5- 98			Dike - Hb + f.p.		A 757	77-82				
98 - 139.5			Breccia - good, F. Py.		A 758	82-87				
				V. Sli.-Sli CP.	A 759	87-89.5				
139.5-144			Dike - f.p. - sli.sulphides		A 760	98-103				
144 - 161			Breccia - better developed		A 761	103-108				
			+ lighter colored at end of		A 762	108-113				
			section		A 763	113-118				
161-171			Dike - massive - slighly		A 764	118-123				
			fragmented		A 765	123-128				
171 - 184			Dike,- porphyry - feldsper		A 766	128-133				
					A 767	133-138				

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 2

D. D. H. No. 3

Lat. 600.328/10 + 50X Dip -45° Elev. Start Aug. 17, 1956

Dep. Bearing True south Depth 501 End Aug. 22, 1956

FOOT	GRADE	CORE RECV	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
184 - 211			Breccia - bleached light green		A 768	138-139.5				
					A 769	Handpick				
			Last 4 ft.							
			Py.-Sli to F, CP - Nil to Tr.							
211 - 226.5			Dike - pink or red-grey porphyry,							
			Tr.Sulphides, becomes greenish @ 219'							
226.5 - 243			Breccia - massive & less distinct,							
			Py.-V.sli. CP. - Tr.							
243 - 288			Breccia - fairly good - some							
			narrow dikes or large fragments							
			of dark dense F.P.							Logged by K. Olien
			Py.-V.sli to sli, CP - V.sli.							H. Veerman
288 - 321			Breccia with about ½ dike							Drilled by Mutch Diamond
			Breccia is good - Almost no							Drilling Co.
			sulphides in dike but Py - V.Sli to Sli							Bit size - Axt.
			& CP. V.sli. in Breccia							Left in hole - Nil
321 - 360.5			Breccia - good, a few narrow							
			dikes (pinkish green)							Dip tests taken
			Py - V.sli. to sli. CP - V.sli							100' - 52°
360.5-369.5			Dike - F.P.-reddish purple							300' - 48°
			matrix & greenish lath-like							500' - 50°
			xals of felds.							Note: Angles not corrected
369.5-501.0			Breccia - good - well developed -							
			some fragments have pink edges							
			while others are completely pink -							
			Some fractures are filled with the							
			pink material. A few narrow F.P.dikes.							
			Py - V.sli. CP - Tr. toV.sli.							
			End of D.D.H. #3							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C. SHEET No. 1

D. D. H. No. 4

Lat. 32 S Dip -50° Elev. Start Aug. 24, 1956

Dep. 10 + 50 W Bearing North Depth 502.5' End Aug. 28, 1956.

FOOT	GRADE	CORE REC'V	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 11			Casing							
11 - 30.5			Breccia	Sli.py. Sli.Cp.						11'-53.5' A core
30.5- 38.5			Dike							
38.5- 61.5			Breccia	Sli.Py. Sli. Cp.						Rust 39'-40.5'
61.5 - 95			"	V.Sli.Sulph. Tr.Cp.						
95 -100			Flsp.porph.	Sli.Py. Nil Cp.						
100 - 107.5			Breccia	Sli.Py. V.Sli. Cp.						very dark color.
107.5-139			Dike	V.Sli.Sulph. Nil Cp.						minor breccia
139 - 243			Breccia	Almost no sulph.						some dike
243 - 327			Breccia	V.Sli.Sulph. Tr.Cp.						minor dike,greenish
327 - 359		95%	Breccia	Sli.Py. Tr.Cp.						minor dike,chl.ep.
359 - 362		90%	Porph.dike	Sli.Py.						chl.
362 - 410		90%	Breccia	Sli.Py.Tr.Cp.						minor dike
410 - 438		90%	Breccia &	dike, V.Sli.Py.Tr.Cp.						chl. 40% dike
438 - 471		95%	Dikes	V.Sli.Py. Tr.Cp.						Flsp.porph. etc.
471 - 502½		90%	Breccia	Sli.Py. Tr.Cp.						some dike
502½			End of hole							

MORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 3

Lat. 32 S Dip. -45° Elev. Start Aug. 30, 1956

Dep. 12 W Bearing East Depth 502' End Sept. 5, 1956

FOOT	GRADE	CORE RECV'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 7'			Casing							7 - 55'-A.core
7 - 58		95%	Breccia	Sli. Py. Tr. Cp.						some dikes ep.
58 - 86.5		100%	Breccia-dike	V.Sli.Py. Tr.Cp.						high ep.
86.5- 92		100%	hbl.porph.	Nil						
92 - 205		95%	Breccia	V.Sli. Py. Tr.Cp.						ep.chl.minor dike
205 - 243		90%	Breccia-dike	V.Sli. Py. Tr. Cp.						ep.flsp.hbl.porph.
243 - 252		80%	Bre.-dike	V.Sli.Py. Tr. Cp.						heavy shearing
252 - 283		100%	"	V.Sli.Py. Tr. Cp.						ep. chl.
283 - 287		90%	Breccia	Nil						shearing calc.vein
287 - 302		100%	Dike Breccia	Tr.Py.						
302 - 306		80%	Breccia	Tr.Py.						shearing calc.ep.
306 - 402		90%	Breccia	Sli.Py. Tr.Cp.						purple dikes
402 - 420		80%	Breccia	V.Sli. Py.						calc.ep. chl.
420 - 465		90%	"	V.Sli. Py. Tr.Cp.						shearing @ 432' and 462'
465 - 502		95%	Breccia	Sli.Py. V.Sli.Cp.						green
502			End of hole.							

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 6

Lat. 37 S Dip. -45° Elev. Start Sept. 5, 1956

Dep. 4 W Bearing East Depth 420 End Sept. 14, 1956

FEET	GRADE	CORE RECOV.	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 23			Casing							
23 - 51		80%	Fldsp.per.	Sli-Fair Py.						
51 - 81		90%	F.hbl.per.	V. Sli. Py.						chl.
81 - 103		90%	Feldsp. per.	Sli. Py.						
103 - 216		80%	F.hbl. per.	V.Sli. Py.						
216 - 225		95%	dike	Sli. Py.						dark col. sh.
225 - 233		90%	tuff or per.	Tr. Py.						
233 - 240		100%	dike	Tr. Py.						dark col.
240 - 292		60%	Alt. dike	Nil					)	strongly alt.
292 - 340		60%	"	Nil					)	shearing
340 - 420		70%	"	Nil					)	lighter and
420			End of hole							dark col.
				Bit lost at 420'						
				Hole discontinued						
				Ax core: 23' - 26'						
				Ex core: 26' - end						
				Dip test @ 100' 48°						
				Dip test @ 260' 51°						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 7

Lat. 7 S Dip. 45° Elev. Start Sept. 15, 1956

Dep. 2 + 00 E Bearing West Depth 503 End Sept. 21, 1956

FOOT	GRADE	CORE RECV'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 6			Casing							
6 - 61		90%	Breccia	Tr. Py.						@ 38' shearing
61 - 73		100%	Lava	Nil						
73 - 136		95%	Breccia	Tr. Py.						ep.
136 - 138		100%	Dike	Nil						
138 - 182		90%	Lava	Tr. Py. Cp.						ep.
182 - 240		95%	"	Nil						ep.
240 - 301		100%	"	Tr. Py.						
301 - 308		80%	sp. rock	Tr. Py. Cp.						
308 - 333		95%	Lava	Tr. Py.						calc. ep.
333 - 378		100%	Porph. volc.	Tr. Py. Cp.						green, hbld. porph.
378 - 428		90%	Lava	Tr. Py.						
428 - 437		80%	Greenstone	Nil						broken, alt.
437 - 503		90%	Lava	Tr. Py.						some hbld. porph.
503			End of hole							
				6' - 31' AX core						
				31' - 503' Ex core						
				Dip test @ 100' - 49°						
				@ 300' - 48°						
				@ 500' - 49°						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 8

Lat. 0 + 14 N Dip -45° Elev. Start September 22, 1956

Dep. 14 + 49 W Bearing S Depth 332' End September 26, 1956

FOOT	GRADE	CORE REC'Y	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 19			Casing							
19 - 48		50%	Lava	Tr. Py. Cp.						oxidized, broken
48 - 82		70%	Lava	V.Sli. sulph.(Tr.Cp.)						
82 - 86		90%	Fldsp.por.ph.	nil						dike or sill (?) purple color
86 - 97		100%	Lava + dike	V.Sli.sulph. V.Sli.Cp.						
97 - 123		90%	dike or sill	Tr. Py. Cp.						
123 - 133		100%	"	V. Sli. Cp.						
133 - 225		90%	"	Tr. Cp. Py.						
225 - 286		100%	Breccia	Tr. Cp. Py.						fragmental lava
286 - 290		100%	"	V.Sli. Cp. Py.						chl. ep.
290 - 332		95%	"	Tr. Cp. Py.						
332			End of hole.							
				Ax core 19' - 30'						
				Ex core 30' - 332'						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C. SHEET No. 1

D. D. H. No. 2

Lat. 75 S Dip. - 45° Elev. Start Sept. 29, 1956

Dep. 13 + 10 W Bearing W Depth 452' End Oct. 4, 1956

FOOT	GRADE	CORE RECV.	ROCK	MINERALIZATION	No.	LENGTH	% CU			REMARKS
0 - 16			Casing							
16 - 17		100%	Granite rock, prob. boulder							
17 - 65.5		90%	Greenstone	Tr. Py. Cp.						Some brecc.
65.5 - 70		90%	"	V.Sli. Cp. Tr. Py.						Minor brecc.
70 - 80		90%	"	V.Sli. Cp. Tr. Py.						brecc.
80 - 84		80%	Feldsp.por.	V.Sli. Cp.						dike or sill.
84 - 104		100%	Greenstone	Sli. Cp.						brecc.qu.veinl.
104 - 109		90%	Feldsp.por.	Sli. Cp.						dike or sill.
109 - 113		90%	Greenstone	Sli. Cp.						some brecc.
113 - 124		100%	Feldsp.por.	Sli. Py. Tr. Cp.						some fragments
124 - 160		100%	"	Sli. Py. Tr. Cp.						"
160 - 183		90%	"	Sli. Cp.V.Sli. Py.						qu. calc. veinl.
183 - 193		100%	F.p.-Gr.s.	V.Sli. Py. Cp.						contact
193 - 230		100%	Greenstone	V.Sli. cp. Tr.Py.						some brecc.
230 - 254		100%	Lava	V. Sli.Py. Tr.Cp.						
254 - 270		100%	"	V. Sli.Py. Tr.Cp.						chl. ep.
270 - 283		100%	Sp. Lava	Tr. Py. Cp.						strong ep.
283 - 298		100%	Greenstone	V.Sli. Py. Cp.						some brecc.
298 - 340		100%	"	Tr. Py. Cp.						
[illegible] - 402		100%	"	Tr. Py. Cp.						
402 - 410		100%	Feldsp.hbl.p.	nil						
410 - 452		100%	Greenstone	Tr. Py. Cp.						heavy ep.
452			End of hole.							
			Dip test	at 100' 52°						
				at 240' 55°						
				at 440' 50°						
			Air core	16' - 31.5'						
			Air core	31.5' - 452'						

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT Cu.	TYPE	SAMPLED BY
A2113	Aspen Grove	HALO #4 MC DDH No 3 33-35'	2'	0.35		
A2114	"	" " 80-90'	10'	0.05		
A2115	"	" " 116-122	6'	0.25		
A2116	"	" " 130-138'	8'	0.07		
A2117	"	AZ #3 MC DDH No 1 51-61'	10'	0.05		
A2118	"	" " 89-92	3'	Tr		
A2119	"	" DDH No 2 95-105'	10'	0.02		

Entered.

2M. 6-56. C. & S.

PHONE: MUTUAL 5-5821

CERTIFICATE OF ASSAY

File #176938/944

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

I Hereby Certify *that the following are the results of assays made by me upon samples of* ORE *herein described and received from* Messrs. Noranda Exploration Co. Ltd. September 25th 1959

MARKED	GOLD		SILVER		Copper				GROSS TOTAL VALUE
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton	(2000 lbs.) Per Ton
		$		$		$		$	$
W. I. Nelson HALO 4									
A2113					0.35				
A2114					0.05				
A2115					0.25				
A2116					0.07				
A2117 AZ3 (1)					0.05				
A2118 AZ3 (1)					Trace				
A2119 AZ3 (2)					0.02				

entered.

Gold calculated at $.....*per ounce.*

Silver calculated at.....*cents per ounce.*

Calculated at.....*cents per lb.*

Calculated at.....*cents per lb.*

Calculated at.....*cents per lb.*

NOTE—Pulps of Samples retained 2 months from date of Receipt.
Rejects 1 week unless otherwise instructed.

J. Moore ..... Provincial Assayer.

PHONE: MUTUAL 5-5821

CERTIFICATE OF ASSAY

J. R. WILLIAMS & SON LTD.

PROVINCIAL ASSAYERS AND CHEMISTS

Office and Laboratory:

580 Nelson Street, Vancouver 2, B. C.

File #172078/082
W.I.Neilson
Aspen Grove

I Hereby Certify *that the following are the results of assays made by me upon samples of* Ore *herein described and received from* Messrs. Noranda Explorations March 24 19 59

MARKED	GOLD		SILVER		Copper				GROSS TOTAL VALUE
	Ounces Per Ton	Value Per Ton	Ounces Per Ton	Value Per Ton	Per Cent.	Value Per Ton	Per Cent.	Value Per Ton	(2000 lbs.) Per Ton
		$		$		$		$	$
A-4401	Trace		Trace		1.00	Taken by Bob Bechtel		12'?	
A-4402					0.20				6' DDH No 1 KM18 claim
A-4403					0.70				6' " "
A-4404					0.70				5' DDH No 2 "
A-4405					0.40				5' " "

copies sent Bromby + Conex Apr 16/59

*Gold calculated at $*_____*per ounce.*

*Silver calculated at*_____*cents per ounce.*

NOTE—Pulps of Samples retained 2 months from date of Receipt.
Rejects 1 week unless otherwise instructed.

*Calculated at*_____*cents per lb.*

*Calculated at*_____*cents per lb.*

*Calculated at*_____*cents per lb.*

J D Moore Provincial Assayer.

Aspen Grove - Assays - 1959.

92H/15

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 151	Aspen Grove	425-31W		1.17		K. Olien
A 152	" "	0S-30W-Grab samples from bulldozed E.+W.Trench		0.47		"
A 153	" "	0S-15W - sample from bull'd trench on Big Sioux		0.10		"
A 154	" "	1S-18W - Big Sioux trench - west end	60 - 75	0.15		"
A 155	" "	1S-14W - Big Sioux Trench - east end	50	0.25		"
A 156	" "	1S-15 SW " " " " "#2	50	0.32		"
A 157	" "	2S - 16-17W " " " " "#3	50	0.47		"
A 158	" "	2S-36.75W - Pit - 12' x 4' @ 4' intervals		0.15		A. Sturm
A 159	" "	1N-35W - Pit 20 x 30' @ 4' intervals		0.30		"
A160	" "	32W-4S Outcrop	2'	0.85		"
A 161	" "	1N-28.5W - Trench @ 3' intervals	40'	0.20		"
A 162	" "	1N-29W - Bull'd trench running N-S @ 5'	100'	0.17		"
A 163	" "	1N-23W - W.end Cinncinnati Trench @ 5'	45'	0.10		"
A 164	" "	1N-23W - E. " " " @ 5'	10'	0.20		"
A 165	" "	1S-15W - from dump beside pit	25'	0.50		"
A 166	" "	1S-14.5W - pit - 6' x 6' @ 3'		0.32		"
A 167	" "	3S-3W Pit - 6' x 5' @ 2'		1.05		"
A 168	" "	4N-12SW - from dump beside pit-6'x 5' @ 4'		0.60		"
A 169	" "	2N-2.2SW - pit - 7' x 5' @ 2'		0.15		"
A 170	" "	5.5S-20W - trench @ 4'	30'	0.15		"
A 171	" "	3.75S-18W - pit 7' x 7' @ 3'		0.17		"
A 172	" "	2N-19W - trench @ 2'	35'	0.25		"
A 173	" "	52S-24.5W - grab samples from cliff		0.72		"
A 174	" "	0S-27W - E.W. bull'd trench @ 5'	50'	0.15		"
A 175	" "	0S-27.5 W. " " " "	50'	0.15		"
A 176	" "	0S-28W " " " "	50'	0.12		"
A 177	" "	0S-28.5W " " " "	50'	0.12		"
A 178	" "	0S-29W " " " "	50'	0.12		"
A 179	" "	0S-29.5W " " " "	50'	0.07		"
A 180	" "	0S-30W " " " "	50'	0.10		"
A 181	" "	0S-3.5W " " " "	60'	0.17		"
A 182	" "	4S-17W - bulldozed trench @ 5'	30'	0.12		"
A 183	" "	2N-14.5W " " @5'	25'	0.02		"

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 184	Aspen Grove	1S-5.25W. 8' x 6' @ 2' - pit		0.62		A Sturm
A 185	" "	8S-6W - trench @ 2'	6'	0.17		"
A 186	" "	2.25S-3.75W - pit 4' x 3' @ 1'		0.25		"
A 187	" "	4S-4W - outcrop E.W. @ 5'	55'	0.12		"
A 188	"	12S-27.75W	25'x 7'@ 3'	0.15		
A 189		20S-28W - 10 x 5 @ 3 pit		0.10		
A 190		32S-31W - 25' @ 3' across dump		0.65		
A 191		45.75S-18W 10' @ 2' trench		0.04		
A 192		53S - 12W 8' @ 2' small pit		0.10		
A 193		56.50S-5W 10' x 6' @ 2' pit		0.12		
A 194		44S-8W 40' @ 5' (E-W) outcrop		0.03		
A 195		12S-18W 20' @ 3' (N-S) outcrop		0.07		
A 196		70S-30W Grab		6.52		

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 501	Aspen Grove	Trench on E. side Holly 14	18'	2.13	chip	H.V.
A 502	" "	Trench - Pit - Holly 14		2.65	grab	A.B., B.O.B.
A 503	" "	D.D.H. #7 290'	½ ft.	0.15		" "
A 504	" "	Lowest bull'd trench, bald hill		?	grab	B.O.B.
A 505	" "	Adit. Chalco 5. 30' - 79' from portal	49'	0.42	chip	H.V.
A 506	" "	Bulk sample, dump higrade Chalco		2.07		H.V.
A 507	" "	Same as A 506, check		0.10		H.V.
A 508	" "	Trench Holly 14 E-W. 0 - 10'	10'	0.07	chip	H.V.
A 509	" "	10' - 20'	10'	0.07	"	"
A 510	" "	20' - 30'	10'	0.05	"	"
A 511	" "	30' - 40'	10'	0.02	"	"
A 512	" "	40' - 50'	10'	0.05	"	"
A 513	" "	50' - 60'	10'	0.04	"	"
A 514	" "	60' - 70'	10'	0.05	"	"
A 515	" "	Pit, Holly 14. E. Wall	8'	2.72	"	"
A 516	" "	D.D.H. #9, 283' - 293'	10'	0.22		"
A 517	" "	Cincinatti dump, shaft wall		0.32	grab	H.V.
A 518	" "	Dump W. side road, Cincin.		0.12	grab	H.V.

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 651	AspenGrove	Dump, mine on Chalco 2		1.10	Grab	H.V.
A 652	"	Ore shoot mine on Chalco 2		0.50	"	"
A 653	"	Across shear pit Chalco 2		1.65	Chip	"
A 654	"	Walls Pit D1 Chalco 5		0.42	"	"
A 655	"	Walls Upper Pit D 2		0.80	"	"
A 656	"	Hole #8 48' - 55'		0.32	D.D.H.	"
A 657	"	" 55' - 65'		0.25	"	"
A 658	"	" 65' - 75'		0.55	"	"
A 659	"	" 75' - 82'		0.85	"	"
A 660	"	" 85' - 97'		1.02	"	"
A 661	"	" 97' - 105'		0.17	"	"
A 662	"	" 105' - 115'		0.12	"	"
A 663	"	" 115' - 125'		0.17	"	"
A 664	"	" 125' - 135'		0.42	"	"
A 665	"	" 135' - 145'		0.17	"	"
A 666	"	" 145' - 155'		0.12	"	"
A 667	"	" 155' - 165'		0.15	"	"
A 668	"	" 165' - 175'		0.07	"	"
A 669	"	" 175' - 185'		0.12	"	"
A 670	"	" 185' - 195'		0.22	"	"
A 671	"	" 195' - 205'		0.17	"	"
A 672	"	" 205' - 215'		0.40	"	"
A 673	"	" 215' - 225'		0.30	"	"
A 674	"	" 225' - 235'		0.35	"	"
A 675	"	" 235' - 245'		0.15	"	"
A 676	"	" 245' - 255'		0.25	"	"
A 677	"	" 255' - 265'		0.22	"	"
A 678	"	" 265' - 275'		0.17	"	"
A 679	"	" 275' - 285'		0.27	"	"
A 680	"	" 285' - 295'		0.32	"	"
A 681	"	" 295 - 305'		0.15	"	"
A 682	"	" 305' - 315'		0.20	"	"
A683	"	" 315' - 325'		0.22	"	"

2M. 6-56. C. & S.

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION		WIDTH	PER CENT	TYPE	SAMPLED BY
A 684	Aspen Grove	Hole #8	325' - 332'		0.12	D.D.H.	H.V.
A 685	"	Hole #9	84' - 94'	10'	0.35	"	"
A 686	"	"	94' - 104'	10'	0.35	"	"
A 687	"	"	104' - 115'	11'	0.45	"	"
A 688	"	"	160' - 170'	10'	0.40	"	"
A 689	"	"	170' - 178'	8'	0.67	"	"
A 690	"	"	178' - 183'	10'	0.37	"	"
A 691	"	"	193' - 203'	10'	0.35	"	"
A 692	"	"	203' - 213'	10'	0.35	"	"
A 693	"	"	213' - 223'	10'	0.22	"	"
A 694	"	"	223' - 230'	7'	0.17	"	"
A 695	"	Hole #7,	300' - 310'	10'	0.10	"	"
A 696	"	"	340' - 350'	10'	0.07	"	"
A 697	"	Hole #6,	40' - 50'	10'	0.20	"	"
A 698	"	"	80' - 90'	10'	0.22	"	"
A 699	"	Hole #5,	310' - 320'	10'	0.15	"	"
A 700	"	"	470' - 480'	10'	0.22	"	"
	"	Hole #4,	40 - 50	10'	0.30	"	
	"	"	100 - 110'	10'	0.17	"	
	"	Hole #5,	40' - 50'	10'	0.17	"	

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE NO	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 501	Aspen Grove	Trench on E. side Holly 14	18'	2.13	chip	H.V.
A 502	" "	Trench - Pit - Holly 14		2.65	grab	A.B., B.O.B.
A 503	" "	D.D.H. #7 290'	½ ft.	0.15		" "
A 504	" "	Lowest bull'd trench, bald hill		?	grab	B.O.B.
A 505	" "	Adit, Chalco 5. 30' - 79' from portal	49'	0.42	chip	H.V.
A 506	" "	Bulk sample, dump higrade Chalco		2.07		H.V.
A 507	" "	Same as A 506, check		0.10		H.V.
A 508	" "	Trench Holly 14 E-W. 0 - 10'	10'	0.07	chip	H.V.
A 509	" "	10' - 20'	10'	0.07	"	"
A 510	" "	20' - 30'	10'	0.05	"	"
A 511	" "	30' - 40'	10'	0.02	"	"
A 512	" "	40' - 50'	10'	0.05	"	"
A 513	" "	50' - 60'	10'	0.04	"	"
A 514	" "	60' - 70'	10'	0.05	"	"
A 515	" "	Pit, Holly 14. E. Wall	8'	2.72	"	"
A 516	" "	D.D.H. #9, 283' - 293'	10'	0.22		"
A 517	" "	Cincinatti dump, shaft wall		0.32	grab	H.V.
A 518	" "	Dump W. side road, Cincin.		0.12	grab	H.V.

HALO

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 151	Aspen Grove	42S-31W		1.17		K. Olien
A 152	" "	E.+W. Trench 0S-30W-Grab samples from bulldozed		0.47		"
A 153	" "	Big Sioux 0S-15W - sample from bull'd trench on		0.10		"
A 154	" "	1S-18W - Big Sioux trench - west end	60 - 75	0.15		"
A 155	" "	1S-14W - Big Sioux Trench - east end	50	0.25		"
A 156	" "	1S-15 SW " " " " "#2	50	0.32		"
A 157	" "	2S - 16-17W " " " " "#3	50	0.47		"
A 158	" "	2S-36.75W - Pit - 12' x 4' @ 4' intervals		0.15		A. Sturm
A 159	" "	1N-35W - Pit 20 x 30' @ 4' intervals		0.30		"
A160	" "	32W-4S Outcrop	2'	0.85		"
A 161	" "	1N-28.5W - Trench @ 3' intervals	40'	0.20		"
A 162	" "	1N-29W - Bull'd trench running N-S @ 5'	100'	0.17		"
A 163	" "	1W-23W - W.end Cinncinnati Trench @ 5'	45'	0.10		"
A 164	" "	1W-23W - E. " " " @ 5'	10'	0.20		"
A 165	" "	1S-15W - from dump beside pit	25'	0.50		"
A 166	" "	1S-14.5W - pit - 6' x 6' @ 3'		0.32		"
A 167	" "	3S-3W Pit - 6' x 5' @ 2'		1.05		"
A 168	" "	4N-12SW - from dump beside pit-6'x 5' @ 4'		0.60		"
A 169	" "	2N-2.2SW - pit - 7' x 5' @ 2'		0.15		"
A 170	" "	3.5S-20W - trench @ 4'	30'	0.15		"
A 171	" "	3.75S-18W - pit 7' x 7' @ 3'		0.17		"
A 172	" "	2N-19W - trench @ 2'	35'	0.25		"
A 173	" "	52S-24.5W - grab samples from cliff		0.72		"
A 174	" "	0S-27W - W.W. bull'd trench @ 5'	50'	0.15		"
A 175	" "	0S-27.5 W. " " " "	50'	0.15		"
A 176	" "	0S-28W " " " "	50'	0.12		"
A 177	" "	0S-28.5W " " " "	50'	0.12		"
A 178	" "	0S-29W " " " "	50'	0.12		"
A 179	" "	0S-29.5W " " " "	50'	0.07		"
A 180	" "	0S-30W " " " "	50'	0.10		"
A 181	" "	0S-3.5W " " " "	60'	0.17		"
A 182	" "	4S-17W - bulldozed trench @ 5'	30'	0.12		"
A 183	" "	2N-14.5W " " @5'	25'	0.02		"

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE NO.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 651	Aspendrove	Dump, mine on Chalco 2		1.10	Grab	H.V.
A 652	"	Ore shoot mine on Chalco 2		0.50	"	"
A 653	"	Across shear pit Chalco 2		1.65	Chip	"
A 654	"	Walls Pit D1 Chalco 5		0.42	"	"
A 655	"	Walls Upper Pit D 2		0.80	"	"
A 656	"	Hole #8 48' - 55'		0.32	D.D.H.	"
A 657	"	" 55' - 65'		0.25	"	"
A 658	"	" 65' - 75'		0.55	"	"
A 659	"	" 75' - 82'		0.85	"	"
A 660	"	" 85' - 97'		1.02	"	"
A 661	"	" 97' - 105'		0.17	"	"
A 662	"	" 105' - 115'		0.12	"	"
A 663	"	" 115' - 125'		0.17	"	"
A 664	"	" 125' - 135'		0.42	"	"
A 665	"	" 135' - 145'		0.17	"	"
A 666	"	" 145' - 155'		0.12	"	"
A 667	"	" 155' - 163'		0.15	"	"
A 668	"	" 165' - 175'		0.07	"	"
A 669	"	" 175' - 185'		0.12	"	"
A 670	"	" 185' - 195'		0.22	"	"
A 671	"	" 195' - 205'		0.17	"	"
A 672	"	" 205' - 215'		0.40	"	"
A 673	"	" 215' - 225'		0.30	"	"
A 674	"	" 225' - 235'		0.35	"	"
A 675	"	" 235' - 245'		0.15	"	"
A 676	"	" 245' - 255'		0.25	"	"
A 677	"	" 255' - 265'		0.22	"	"
A 678	"	" 265' - 275'		0.17	"	"
A 679	"	" 275' - 285'		0.27	"	"
A 680	"	" 285' - 295'		0.32	"	"
A 681	"	" 295 - 305'		0.15	"	"
A 682	"	" 305' - 315'		0.20	"	"
A 683	"	" 315' - 325'		0.22	"	"

NORANDA EXPLORATION CO. LTD.

SAMPLE REPORT

SAMPLE No.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 184	Aspen Grove	1S-5.25W. 8' x 6' @ 2' - pit		0.62		A Sturm
A 185	" "	8S-6W - trench @ 2'	6'	0.17		"
A 186	" "	2.25S-3.75W - pit 4' x 3' @ 1'		0.25		"
A 187	" "	4S-4W - outcrop E.W. @ 5'	55'	0.12		"
A 188	"	12S-27.75W	25'x 7'@ 3'	0.15		
A 189		20S-28W - 10 x 5 @ 3 pit		0.10		
A 190		32S-31W - 25' @ 3' across dump		0.65		
A 191		45.75S-18W 10' @ 2' trench		0.04		
A 192		53S - 12W 8' @ 2' small pit		0.10		
A 193		56.50S-5W 10' x 6' @ 2' pit		0.12		
A 194		44S-8W 40' @ 5' (E-W) outcrop		0.03		
A 195		12S-18W 20' @ 3' (N-S) outcrop		0.07		
A 196		70S-30W Grab		6.52		

SK. 8-54 C.4 B.

NORANDA EXPLORATION CO. LTD

SAMPLE REPORT

SAMPLE NO.	PLACE	LOCATION		WIDTH	PER CENT	TYPE	SAMPLED BY
A 684	Aspen Grove	Hole #8	325' - 332'		0.12	D.D.H.	H.V.
A 685	"	Hole #9	84' - 94'	10'	0.35	"	"
A 686	"	"	94' - 104'	10'	0.35	"	"
A 687	"	"	104' - 115'	11'	0.45	"	"
A 688	"	"	160' - 170'	10'	0.40	"	"
A 689	"	"	170' - 178'	8'	0.67	"	"
A 690	"	"	178' - 183'	10'	0.37	"	"
A 691	"	"	193' - 203'	10'	0.35	"	"
A 692	"	"	203' - 213'	10'	0.35	"	"
A 693	"	"	213' - 223'	10'	0.22	"	"
A 694	"	"	223' - 230'	7'	0.17	"	"
A 695	"	Hole #7,	300' - 310'	10'	0.10	"	"
A 696	"	"	340' - 350'	10'	0.07	"	"
A 697	"	Hole #6,	40' - 50'	10'	0.20	"	"
A 698	"	"	80' - 90'	10'	0.22	"	"
A 699	"	Hole #5,	310' - 320'	10'	0.15	"	"
A 700	"	"	470' - 480'	10'	0.22	"	"
	"	Hole #4,	40 - 50	10'	0.30	"	
	"	"	100 - 110'	10'	0.17	"	
	"	Hole #3,	40' - 50'	10'	0.17	"	