

92 H/15

NORANDA EXPLORATION CO. LTD.

861157

PROPERTY Aspen Grove, B. C. SHEET No. 1D. D. H. No. 2Lat. 60° 32S/10 + 50W Dip. -45° Elev. 483' Start Aug. 8, 1956Dep. _____ 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. + f.p.dikes sli.py.	A 703 A 704 A 705 A 706 A 707 A 708 A 709	187-192 192-197 197-203 203-208 208-213 213-218 218-222	0.10 0.15 0.10 0.20 0.12 0.07 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			5
			(8') Sli.-F.py.		A 716	349-354	0.27			5
			V.sli. to F. Cp.		A 717	354-359	0.15			$\frac{5085}{275}$
					A 718	359-364	0.42			
					A 719	364-369	0.50			
					A 720	369-374	0.30			
					A 721	374-379	0.15			
			Very rough log. -		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	420-425	0.55		
					A 731	425-430	0.17		
			2.5 H6 porphyry @ 417'		A 732	430-435	0.12		
					A 733	435-440	0.12		
465 - 483			Breccia - minor dike, f.p.		A 734	440-445	0.09		
					A 735	445-450	0.52		
			Breccia becomes darker		A 736	450-455	0.22		
			some chlorite - sli.py.		A 737	455-460	0.12		
					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 - ENT.						
			Left in hole - 47' ENT casing + one ENT 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. 60° 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		37 5/8 @ 0.32%
89.5- 98			Dike - Hb + f.p.		A 757	77-82	0.35		
98 - 139.5			Breccia - good, F. Py.		A 758	82-87	0.45		
				V. Sli.-Sli CP.	A 759	87-89.5	0.35		
139.5-144			Dike - f.p. - sli.sulphides		A 760	98-103	0.30		
144 - 161			Breccia - better developed		A 761	103-108	0.25		
			+ lighter colored at end of		A 762	108-113	0.27		
			section		A 763	113-118	0.22		40 @ 0.27%
161-171			Dike - massive - slightly		A 764	118-123	0.35		
			fragmented		A 765	123-128	0.30		
171 - 184			Dike,- porphyry - feldsper		A 766	128-133	0.20		
					A 767	133-138	0.25		

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B.C.

SHEET No. 2

D. D. H. No. 3

Lat. 60° 32'S/10 + 50'N 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	0.7		
					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 1/2 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. to V.sli.						
			End of D.D.H. #3						

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C.

SHEET No. 1

D. D. H. No. 5

Lat. 32 S Dip. - 45° Elev. 425 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.		40-50		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.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.		310 320		purple dikes
402 - 420		80%	Breccia	V.Sli. Py.				calc.ep. chl.
420 - 465		90%	"	V.Sli. Py. Tr.Cp.		430 440		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 @ 250'	51°					

NORANDA EXPLORATION CO. LTD.

PROPERTY Aspen Grove, B. C.

SHEET No. 1

D. D. H. No. 7

Lat. 2 S Dip. 45° Elev. 2945' 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%	ep. rock	Tr. Py. Cp.						
308 - 333		95%	Lava	Tr. Py.						calc. ep.
333 - 378		100%	Porph. volc.	Tr. Py. Cp.						green, hblid. porph.
378 - 428		90%	Lava	Tr. Py.						
428 - 437		80%	Greenstone	Nil						broken, alt.
437 - 503		90%	Lava	Tr. Py.						some hblid. 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. 04757 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.per.	V.Sli. Cp.				dike or sill.
84 - 104		100%	Greenstone	Sli. Cp.				brecc.qu.veinl.
104 - 109		90%	Feldsp.per.	Sli. Cp.				dike or sill.
109 - 115		90%	Greenstone	Sli. Cp.				some brecc.
115 - 124		100%	Feldsp.per.	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.				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.

SAMPLE REPORT

SAMPLE NO.	PLACE	LOCATION	WIDTH	PER CENT	TYPE	SAMPLED BY
A 151	Aspen Grove	425-31W		1.17		K. Olien
A 152	" "	E.+W. Trench OS-30W-Grab samples from bulldozed		0.47		"
A 153	" "	Big Sioux OS-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	" "	1N-23W - W. end Cinnacinnati 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-2.28W - 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	" "	OS-27W - E.W. bull'd trench @ 5'	50'	0.15		"
A 175	" "	OS-27.5 W. " " " "	50'	0.15		"
A 176	" "	OS-28W " " " "	50'	0.12		"
A 177	" "	OS-28.5W " " " "	50'	0.12		"
A 178	" "	OS-29W " " " "	50'	0.12		"
A 179	" "	OS-29.5W " " " "	50'	0.07		"
A 180	" "	OS-30W " " " "	50'	0.10		"
A 181	" "	OS-30.5W " " " "	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	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	"	"

