NORANDA EXPLORATION COMPANY LTD.

Property	ZETA	Started	Aug. 17, 1984	FIELD CO-ORDINATES	SURVEYED CO-ORDINATES	DIP TESTS						NTS no.	115 P/14
Hole no.	Z-84-10	Finished	Aug. 19, 1984	Lat. 10,050E	Lat.	Depth	Bearing	Dip	Depth	Bearing	Dip	Project no.	95/82
Bearing	335°	Length	125.91 m (413 ft.)	Dep. 9,955N	Dep.							Logged by	B. Jago
Dip - Collar	-56°	Core size	NQ	Elev.	Elev.							Sheet	1 of 3

METRES From	METRES To	% Recovery	Graphic Log	DESCRIPTION OF UNITS	% Mineralization	Sample no.	METRES From	METRES To	METRES Length	ASSAYS
0	4.3			OVERBURDEN						
4.3	76.82	90-100		SYENITE Generally fresh, locally altered and fractured. Upper 34.76 m is weakly kaolinized and weathered with minor broken sections. Rest is quite fresh with local foliation at 35-45° to C.A. 73.93 m: 1-2 cm wide Tour. vein at 60° to C.A. 75.61-75.73: Weakly tourmalinized with weak limonite and kaol'n.						
76.82	79.42	90		COMPLETELY KAOLINIZED, LIMONITIZED SYENITE Moderate to strong lim'n, complete kaol'n but some remnant textures. <1% diss. Tour., slightly higher at 76.98. 77.41-78.20: 2-3 cm Tour. vein and zone of 10-15% diss. Tour.	<1% Tour.					
79.42	79.88	100		TOURMALINE-KAOLINITE REPLACEMENT ZONE 79.42-79.57: 20% Tour + 1-3% Asp in kaol. Alt'n banding at 25-30° to C.A. 79.57-79.88: 2 generation Tour + Qtz + kaol. vein, 5-7% Asp; brecciated.	1-3% Asp. ~5% Asp.					
79.88	81.92			KAOLINITE ZONE Strongly foliated from 79.88-79.94, Tour. decreases to 0% at 79.94, massive kaolin with minor limonite below this.						
81.92	82.10	100		FRESH SYENITE						
82.10	82.50	100		FOLIATED KAOL'D, LIM'D SYENITE Strongly foliated with moderate kaol'n and lim'n. Fol'n @ 30° to C.A. Minor Tour. at 81.89.						
82.5	83.23	100		FRESH SYENITE Minor foliation at 30° to C.A.						
83.23	83.84	90		FOLIATED, KAOLINIZED, LIMONITIZED SYENITE Strong to complete kaol'n and lim'n, highly foliated at 30° to C.A.						

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METRES From	METRES To	% Recovery	Graphic Log	DESCRIPTION OF UNITS	% Mineralization	Sample no.	METRES From	METRES To	METRES Length	ASSAYS
83.84	86.49	100		LIMONITIZED, COMPLETELY KAOL'D SYENITE Mild to mod. lim'n, complete kaol'n. Limonite decreases to 84.76, after that it occurs only along fractures.						
86.49	87.26	100		KAOLIN. Green-blue kaolin and yellow-green kaolin.	<<1% Sulph.					
87.26	89.32	100		RELATIVELY FRESH SYENITE Mild kaol'n below 87.53 and biotitization below 88.11 m.						
89.32	91.76	90		LIMONITIZED, COMPLETELY KAOL'D SYENITE Moderate to strong lim'n; complete kaol'n. <1% diss. Tour. throughout, very porous at 90.82 m.						
91.76	92.40	90		HIGHLY ALTERED SYENITE Weak lim'n, very strongly clay alt'd, complete kaol'n. Banded (at 30° to C.A.) and pitted sulphides (3-5% Asp rhombs?) 91.81-91.83: Tour-clay vein at 45°.						
92.40	92.88	90		LIMONITIZED, COMPLETELY KAOL'D SYENITE Strong lim'n; strong clay alt'n at F-wall.						
92.88	93.19	85		CLAY ALTERED, KAOLINIZED SYENITE Highly altered to clay and kaolinite slickensides at 45° to C.A.(?)						
93.19	93.32	95		BRECCIATED TOUR-CLAY-LIM. VEINLETTES 85%, 2-3 generations of Tour, 10-12% Qtz, 1% Clay, 1-2% Asp. Fol'n at 45°	1-2% Asp					
93.32	93.47	95		CLAY ALTERED, KAOLINIZED SYENITE Completely alt'd.						
93.47	96.04			TOURMALINE-QUARTZ-CLAY-SULPHIDE GEESEN VEIN Variably altered, brecciated and mineralized.						
		85		93.47-93.65: Brecciated, clay alt'd, arsenate stained, 2-3 Tour-Qtz-Clay-Asp (1-3%) vein. Very porous.	1-3% Asp					
		90		93.65-93.90: Very clay alt'd, kaol. zone, 1% diss. Tour. Well foliated at 45° to C.A.						
		95		93.90-94.80: Very porous, 2-3 Tour-Qtz-Clay vein. Brecciated by Tour-Clay-Lim veinlettes.	No visible sulphides					
		100		94.80-95.05: Clay-Kaol. zone with 20% highly alt'd Tour. Gradational to lower zone.						
		95		95.05-95.50: Three Tour-Qtz-Asp (3-5%) vein. Not porous but weakly brecciated. Appears strongly weathered(?).	3-5% Asp					
				95.50-95.73: Very clay altered, kaol'd syenite with 5% alt'd Tour. Sharp H-wall and F-wall.						
				95.73-96.04: Massive 2-3 Tour-Qtz (5-10%) vein. Weakly brecciated, no visible sulphides.						

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METRES From	METRES To	% Recovery	Graphic Log	DESCRIPTION OF UNITS	% Mineralization	Sample no.	METRES From	METRES To	METRES Length	ASSAYS
96.04	96.55	90		WEAKLY TOURMALINIZED, COMPLETELY KAOLINIZED SYENITE Minor local limonite, strong clay alt'n at F-wall.						
96.55	98.32	90		VARIABLE ALTERED SYENITE Weak to intensely altered, m.g. bio + hbl syenite. Much finer grained than H-wall. Limonite common along joints.						
98.32	99.08	90		LIMONITIZED, KAOLINIZED SYENITE Very strong lim'n and kaol'n, intense clay alt'n at F-wall.						
99.08	99.60	95		FRESH SYENITE						
99.60	105.18	90		KAOLINIZED SYENITE Moderately to strongly kaolinized syenite with minor limonite.						
105.18	105.95	80		INTENSELY KAOLINIZED, LIMONITIZED SYENITE Strong biotitization of hornblende, core very broken.						
105.95	110.37	95		MODERATELY ALTERED SYENITE Mod. kaol'n; lim + Mn along joints and fractures at 75-90° to C.A. 107.47-110.37: Includes metased. xenoliths. Strong Bio'n and clay veinlettes.						
110.37	125.91			HORNFELSED QUARTZITE						
		90		110.37-111.43: Contact (at 45° to C.A.) is slickensided with lim + chl coatings.						
		15		111.43-114.63: Very altered, hfls'd gritty quartzite. Extremely broken, possibly v.f.g. Asp(?)						
		80		114.63-115.55: As above but better recovery.						
		10		115.55-116.77: Unaltered but very broken.						
		75		116.77-118.29: As above but better recovery.						
		5		118.29-119.36: Siliceous greywacke.						
				119.36-119.51: Laminated sil. greywacke, very broken, clay + arsenate altered.						
				119.51-125.91: Laminated, sil. greywacke. Unaltered, bedding at 45°.						
	125.91			END OF HOLE.						