

# NORANDA EXPLORATION COMPANY LTD.

Property MARN		Started July 19, 1983		FIELD CO-ORDINATES		SURVEYED CO-ORDINATES		DIP TESTS						NTS no. 116 B/7	
Hole no. M-83-31		Finished July 21, 1983		Lat. 15,948 N		Lat. 7,153,577 U.T.M.		Depth	Bearing	Dip	Depth	Bearing	Dip	Project no. 915	
Bearing 018°		Length 112.17		Dep. 10,330 E		Dep. 605,822								Logged by R. Kemp J. Biczok	
Dip - Collar -70°		Core size BQ		Elev. 1,922.7		Elev. 1940.6								Sheet 1 of 2	
METRES		% Recovery	Graphic Log	DESCRIPTION OF UNITS	% Mineralization	Sample no.	METRES			ASSAYS					
From	To						From	To	Length	Cu (%)	Ag (ppm)	Au (ppb)	W (ppm)		
0	2.3			TALUS											
2.3	52.4			BIOTITE DIORITE Typical medium-grained equigranular massive biotite diorite of the upper sill.											
52.4	54.6			JURASSIC SCHIST Argillaceous quartzite.											
54.6	57.2			BIOTITE DIORITE Lower contact at 50° to C.A., upper contact at 60° to C.A.											
57.20	80.46			JURASSIC SCHIST Argillaceous quartzite. Blocky core from 77.1 to 80.1m 80.16 - 80.46: Dark grey, argillaceous quartzite with abundant malachite fracture coatings.	2% Mal.	J9076	80.16	80.46	0.30	0.235	4.6	1900	10		
80.46	91.67			TAHKANDIT LIMESTONE Generally a white bioclastic to pelletal limestone with interbedded clean, white quartzite and chert pebble conglomerate. Heavily skarnified in upper part. 80.46 - 81.11: High grade skarn. 20-30% Cp, 1% Asp. plus local coarse-grained quartz. The skarn may be a vein replacing conglomerate. Minor calcite and gypsum veinlets at 80 - 90° to C.A. 81.11 - 82.11: Act-Di-Cp Skarn. 1/4 is soft, friable Act-Cp skarn, 1/4 is hard Di skarn with 10% Cp and 1-2% Po. Cut by several 2-3 mm wide satin spar gypsum veinlets at 80-90° to C.A. 82.11 - 82.73: Very hard Di skarn with 25-30% Cp, locally 10-20% Po, minor Py, minor calcite veinlets at 80° to C.A. 82.73 - 83.61: Weakly skarnified limestone with local hematizations. Upper and lower parts are Hem-Act-Cp skarns. 5-7% Cp over top 10 m. Several gypsum veinlets at 90° to C.A. 83.61 - 84.11: Hard Di skarn with 5% disseminated Cp and 20-30% Po as dissem. grains and one vein, 1 cm wide 84.11 - 84.83: Top 20 cm is hard Di-Cp skarn, rest is friable Act-Cp+Hem 84.83 - 85.27: Top 15 cm is barren quartzite, rest is Qtz-Cp-Po skarn with hematite coating. Qtz crystals are euhedral, up to 1 cm long	20-30% Cp, 1% Asp. 5-10 % Cp 30% Cp, 10% Po < 1% Cp overall 5% Cp 20-30% Po 2-3% Cp 15-20% Cp	J9077 J9078 J9079 J9080 J9081 J9082 J9083	80.46 81.11 82.11 82.73 83.61 84.11 84.83	81.11 82.11 82.73 83.61 84.11 84.83 85.27	0.65 1.00 0.62 0.88 0.50 0.72 0.44	3.16 1.19 2.40 0.49 0.50 0.78 2.00	63.0 17.0 36.0 4.3 4.0 8.0 42.0	56,300 11,500 11,300 1,250 4,500 1,780 42,600	0.73% .034% .005% .045% 0.18% 0.08% .007%		

## Property ..... MARN

Hole no. M-83-31

Sheet <sup>2</sup> of <sup>2</sup>

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